

And, by J. Gray



O. Dec. 29. 1840

Respected Gentlemen —

I have put up a suit of my *Asters* and *Solidagos*, with the intention of sending them to you by the first convenient opportunity. — It is probable however, that you will not get them before the next number of your *Flora of North America*, ^{is published,} which Mr. Sullivant informs me is about being put to press at this time, and that it will be filled exclusively with the genus *Aster*. — I have not pretended to name, or in fact to study the *Aster* & *Solidago*s excepting the most distinctly marked ones. — The same is also the case with the genus *Helianthus*, and other genera of the order *Compositae*.

Indeed, we Westerners, look forward to the dawn of a new era upon the order *Compositae*, when your excellent, (we may say national,) work shall have been published on this subject. —

I have smattered a little in Botany for a number of years, but from want of book, company, and proper attention I had neither made any collections of consequence, nor any progress in this delightful science. — Last summer however, I collected pretty thoroughly, having been stimulated to it by an acquaintance with Mr. Wm. J. Sullivant of Columbus. — You will observe, that my plants generally, are not put up with that neatness that is required of a professed Botanist; and in some instances they are much injured in the process of drying; this in many instances results from want of time, which is devoted to the practice of a most arduous profession, with which you are in some measure acquainted. — Many times, some of my most interesting specimens, are brought home in my hat, and probably before I have time to smooth out some of the wrinkles consequent upon their cramped position in the hat, a call is made post haste, and my poor plants are obliged to suffer the withering influences of a hot summer day. — I have become so enthusiastic as to be satisfied with a badly dried specimen, rather than have none at all. —

I have at this time, put up but a small lot of plants, because I am obliged to depend upon the politeness of

of strangers to transmit them. — Next Spring, say Febr. and March, I can have ample opportunities ~~who~~ by our own Merchants, who will be going on to lay in their stock of goods. — I have numbered my plants, & should be happy to when you have leisure & convenience, to make out for me their specific names. — If the plants which I send, are acceptable, please notify me by mail, & if there are any particular plants in my neighborhood, of which you are desirous of studying their locality &c. &c., it will give me much pleasure to transmit them. —

I feel anxious to receive the next number of your *Flora* as soon as possible after its publication, I shall be much obliged to you if you will transmit me a copy by mail, and I will remit the amount of the subscription, directly to your publisher by our Merchants in the Spring, or, if you prefer it, I can immediately pay your agent at Columbus, Mr. Whiting, through whom I have obtained the preceding numbers. —

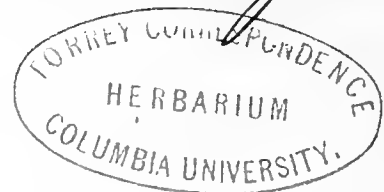
I am also anxious to get a good microscope. — If Dr. Gray can procure one from France, of the quality, and at the price of Mr. Sullivan's, without much inconvenience, I should be glad. — Please let me know what can be done in this respect, and with regard to the probable cost immediately. — I am not, of course, familiar with their use, and should be glad to know whether the large one like Mr. Sullivan's, will supersede the use of the smaller & more simple one. —

The whole subject of my letter, I give as the apology, that might seem necessary in a total stranger addressing you. —

With sentiments of respect, yours truly. —

John M. Bigelow

Drs Torrey & Gray



6 o'clock evening New York
July 25th 1850

Dear Sir

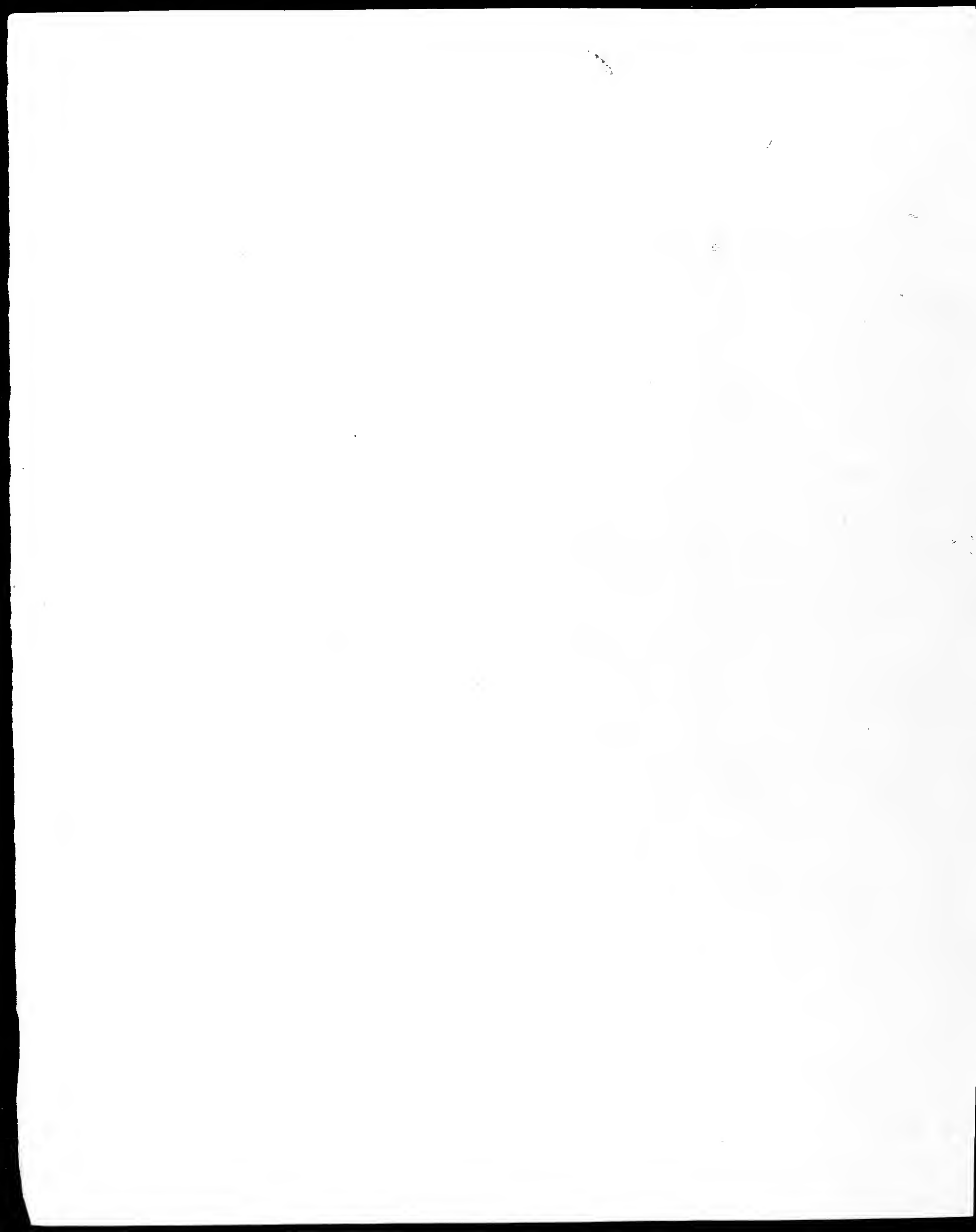
You may think I am crazy
and I certainly know I am confused. —

This is the third time I have attempted to
transmit Mr. Sullivan's letter to you. — This
is the chance if I do not succeed this time
I must give up in despair. — In looking at
my memorandum book just now I find
his letter still here. — I saw Mr. Thuermer
and he thinks you may visit New York soon.
If you do, will you be so kind as to let me
know!

Yours. Most Respectfully

John M. Bigelow

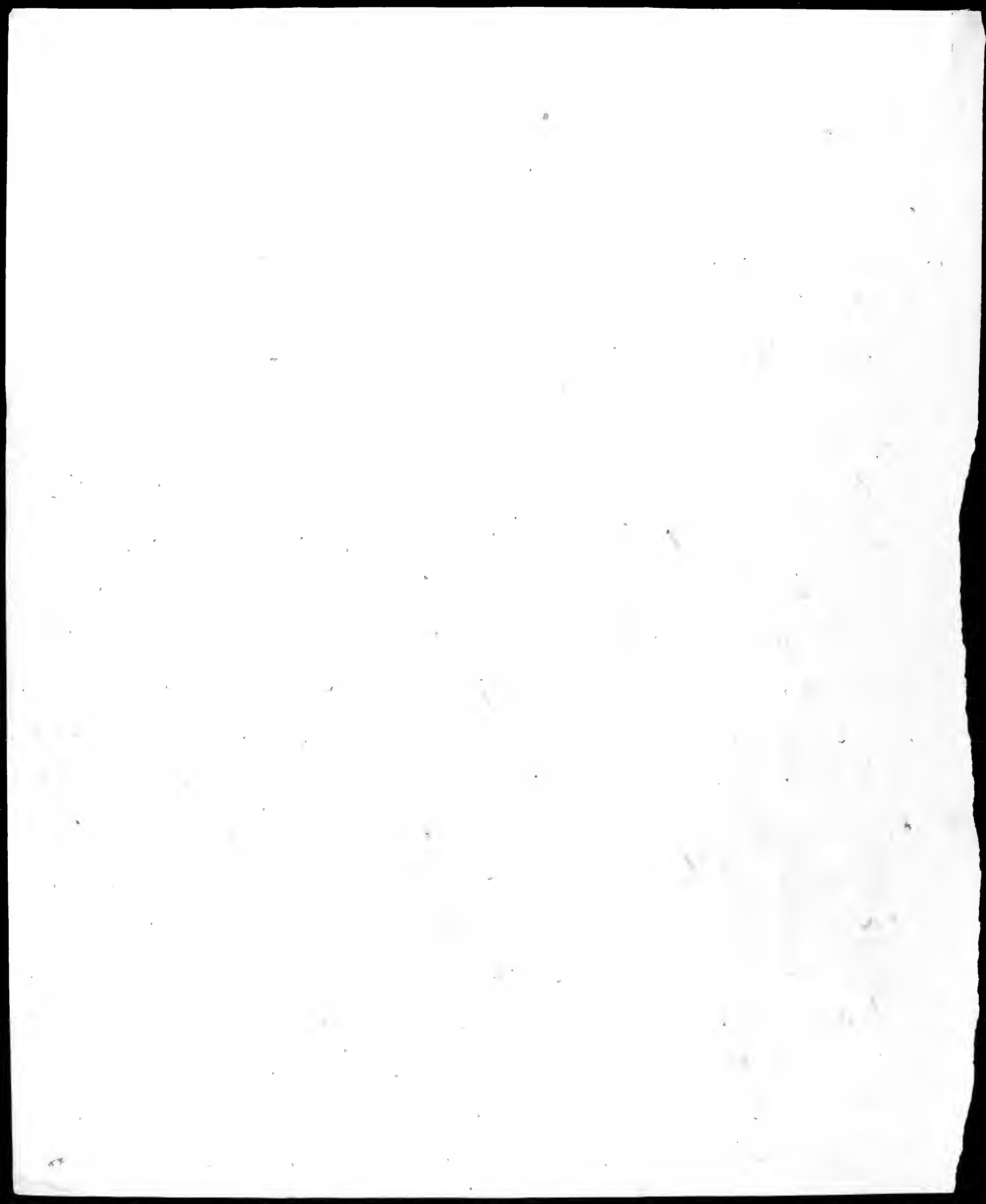
Prof. Torrey. —



And. S. 16th
Camp Leake San Pedro river
Valley 230 miles from San Antonio Texas
Nov. 7th 1850

Dear Sir - Enclosed I send you a specimen
of *Yucca* found by me in the valley of the Rio
San Pedro or more generally known in Texas as
Devils River. - I first ^{saw} it at the 2nd crossing
of the San Pedro on the 3rd Inst. - The valley of
the San Pedro is very narrow and in high water
floodings fills the valley from the mountain on
one side of the river to that on the other side. -

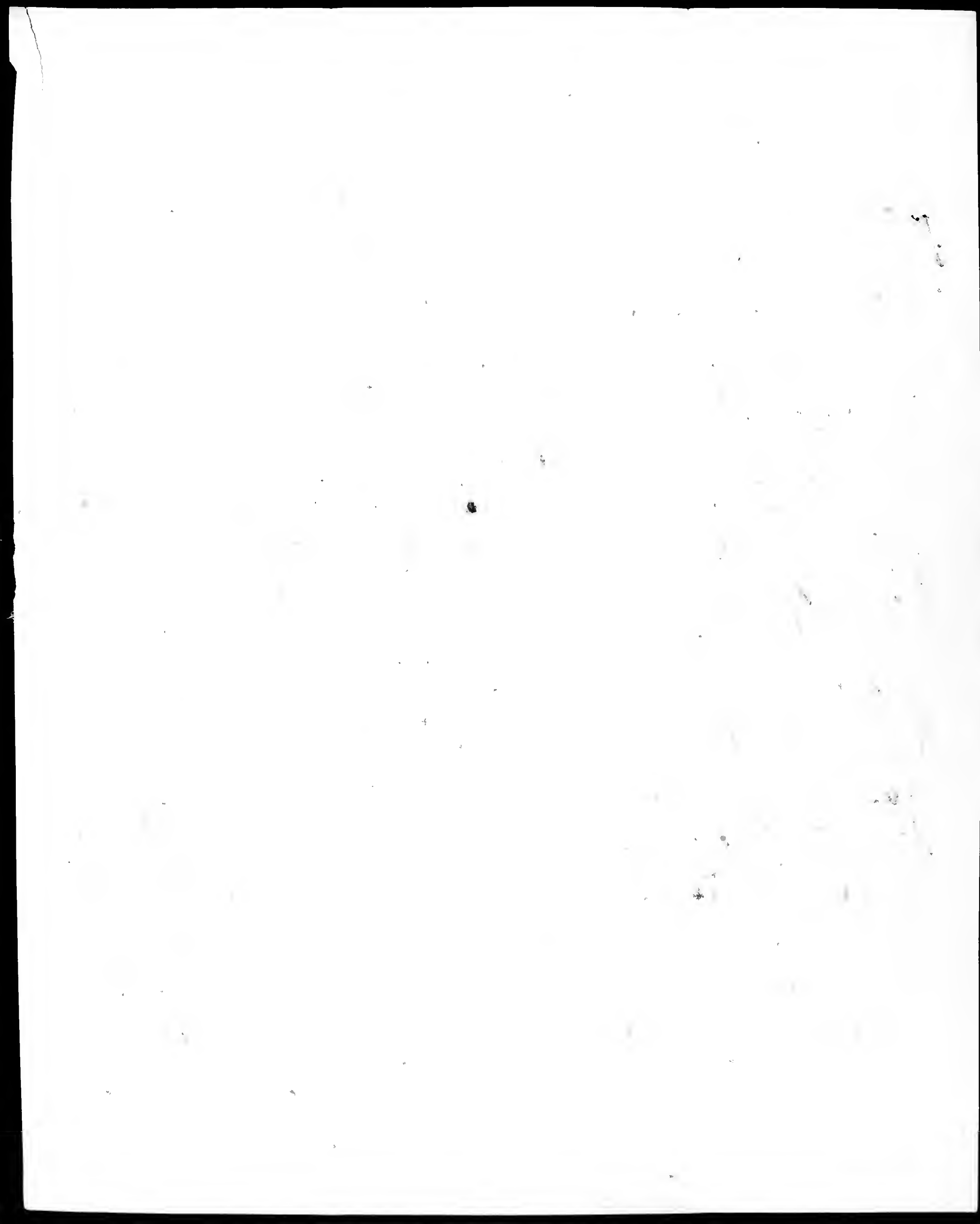
The plant in the bed of the river and near the
banks grows shrubby in large stools of 5 to 20 or
30 stems 5 to 10 feet high. - In places more elevated
and not so subject to inundation it grows in isolated
trees 10 to 20 feet high. - I have every reason to
believe it to be a new species. - You will of
course know. - Should it turn out so I must
claim the privilege of requesting you to write a
diagnostic description of it as far as you can with-
out the flowers, for publication in Silliman's American
Journal at your earliest convenience. - I have
had a hasty sketch made of it which I will send to



you by the next train which we shall probably
meet in a few days. — I also claim the privilege of
suggesting the name of Lt. Whipple to whom to ded-
icate its specific name. — Lt. Whipple has the im-
mediate command of this division of the expe-
dition from San Antonio to El Paso, Mr. Bartlett
having some days before we did started with a
smaller division to reach El Paso on the 4th
Nov. by forced marches. — Lt. Whipple besides
possessing a most amiable & unassuming char-
acter ranks high in scientific attainments par-
ticularly Astronomy. — An additional inducement
is the fact that as Lt. Emory on a similar expe-
dition was honored with an oak I should be pleased
to see Lt. Whipple complemented with a genus
not much less famed in history. The only oak
I have thus far seen in Devils River valley is the
Quercus Emoryi growing side by side with this
Lupinus. — I enclose also a beautiful fern
what I take to be a *Pteris* and a few other
ferns. — Accept my profound respects

Yours most obediently
John W. Bejczy

Prof John Torrey —



N. S. M. Bunday Commission
Socorro (Near El Paso)

July 25. 1857

Dear Sir -

About two weeks since I availed myself of the kindness of Col. McCollan and N. S. Coffey Esqr. to send by the way of San Antonio a collection of plants I had made on our route from that place to El Paso. - My opportunities for collecting and means for preserving what plants I did collect were very limited.

On account of the scarcity of paper I was obliged to re-duplicate many species of one locality into one sheet. - If you find species of another locality in the same sheet labels indicating its locality ~~labels~~ will be attached to each specimen.

The marked difference of Mr. Thurber's collections who travelled the Northern route from San Antonio to El Paso from those of mine satisfies me that this region is not nearly explored botanically and that the field for future examinations is open and extremely rich. - The valley of Devils river or Rio San Pedro is I think rich in new species. -

The lateness of our passage (we left San Antonio 16th Oct. and arrived at Socorro 10th Dec. 1857) made

is unpropitious for the collection of Spring and Summer plants which on account of the aridity of the climate and lateness of season were entirely dried away. — A passage through this region during the Spring or Summer months would be highly interesting to a botanist with proper means for collecting and preserving his specimens. —

If Prof. Asa Gray has returned from Europe I should be pleased to have my Phanogamous plants sent to him. In his absence Prof. Torrey, or Dr. Engelmann of St. Louis would be excellent hands to leave them in if they would take their examination and reduction to task immediately. — My Filicoids and Mosses are small in point of numbers and probably also of interest. I should be glad to have them sent to my friend W. S. Sullivan Esq. of Columbus Ohio. — A synoptical Catalogue and a short diagnostic description of such as are new species it would be well to have furnished for publication in Silliman's American Journal of Science as soon as possible. — The advantage of this measure will be that we can thus secure the priority and honor of what new discoveries we make that might otherwise be lost by delay being anticipated by after-explorers — the credit

insuring to them no matter how long after
us they may have collected them if they succeed
in publishing them before us. -

In a conversation with Mr. Commissioner
Bullitt on this subject he seemed to think that
our plants should be preserved until the termi-
-nation of the Survey of the Boundary line, and
then published in a volume under the auspices of
the Boundary Commission. - The great objection
to this plan is the delay that must unavoidably
ensue before they can be reduced so that many
of our new plants will be found and published
by explorers after us. - We would thus be deprived
of the priority we are entitled to in this discovery. -

As the plants I collected on our route from San Antonio to
this place were not legitimately in the survey, Mr. B.
is not particular about them. - But those collected hereafter
he says he will allow to be used in no other way. -
If a book of our collections should be published I
consider myself in duty bound to furnish the collections
made on this route to be incorporated in it and the full
credit to ensure to the Commissioner.

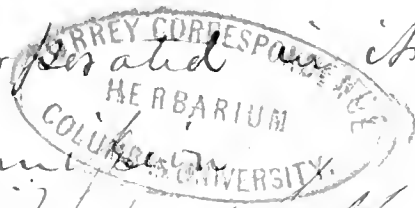
Most respectfully yours &c

To Prof Henry

Smithsonian Institution

John M. Bigelow

Surgeon US Army



referred to Perry

Recd. Sept. 15th (about this 3rd)
Ans? Sept. 15th.

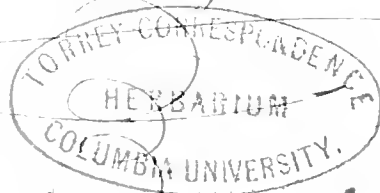
San Antonio, Del Norte, N.M.
July 12, 1857
HERBARIUM
COLLEGE OF AGRICULTURE

Dear Sir, I enclosed I send you a little
which is different from any I have heretofore
seen and so small & pretty that I can not
forego the present opportunity. — I received
your welcome letter a few days ago by Mr. Sam-
ford for which I am thankful. — You write to
me that the little walnut I sent you from Devil's
River is new. — The sketch I had made of it
there was not finished when the train that took
them to San Antonio left our camp. Consequently
I could not send and I have since had few oppor-
tunities. — All the plants I gathered while on
the trip from San Antonio to San Elceario near
El Paso I sent back to Washington by the hands of
Col. McClellan who returned in Feb. last
I sent them to Prof. Henry Secy of the Smith-
sonian Institute with a request that he
should ^{send} them immediately either to Prof. Gray or to
yourself for the purpose of publishing a brief
diagnosis of such as should prove to be new.
I presume you have long since received
them. — My means of collecting and
preserving plants are very scant & limited.

We have many things new & interesting
and I omit no opportunity of doing what
little I can. — I have found a suffruticose
Geastris which is quite new. — I may send a
small specimen. I find another Conop.
in habit very much like a Leonopsis
but still differing from any thing I can
find in your Flora. — We have some
8 or 9 species of Erioporum —

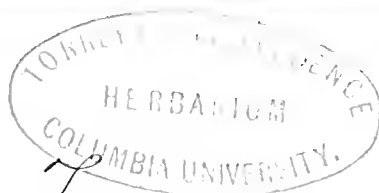
Yours in haste

John M. Lillard



Sept 10 - 1880

And Feb. 9th



} Frontina near El Paso
} December 12th 1857

Dear Sir!—

By the kindness of Maj Emory, Chief of Topographical Eng. and Head of the Scientific Corps, attached to the U.S. Mex. Boundary Commission I am enabled to send two Boxes of Plants collected by myself since about the 1st of April last in the region of country between this and the Copper mines. — Some few of them however were collected further west towards the Rio Gila near the Black Mountains in a range called by the Mexicans "Burro" — On conversation with Maj Emory I find he agrees with me about the propriety of publishing a short diagnostic description of such plants as ~~appear~~ prove to be new in some accredited Journal so as to secure the just priority of their discovery. — I think it an oversight in Mr. Burtlett to keep what he collects until the survey is done because in the intermediate time publication of his plants might possibly occur which would lose to him the priority of their discovery. —

I have no place to preserve my plants here and have consequently sent my whole collection to you for preservation until my return on the recommendation of Maj Emory who assures me they will be well taken care of. —

The only good apology I can make for the bad appearance of plants is the scarcity of paper and want of other necessary materials. - But I must acknowledge my indebtedness to the kindness of your friend Mr. Wright by whose kind and accommodating spirit I have been enabled to get along at all. - He has my sincere thanks. -

Some parts of the season here are beautiful for drying & preserving plants but at other - the rainy season - it requires great care. - you will find some of my plants spoiled from this season and the multiplication of business consequent on my regular duties in the Commission. -

Be pleased to acknowledge the receipts of this as well as the Boxes of plants. - They are marked [B] in addition to the directions. -

I understand Col Graham has sent Mr. Wright's collections to Dr. Gray

With sentiments of high regard

I am yours &c.

John M. Bigelow

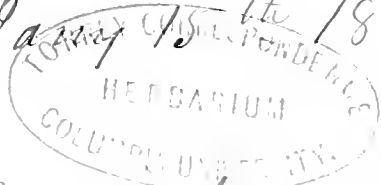
Prof. John Torrey -



Recd. March ~~17~~ 17th

Ans. March 20

Frontera Near El Paso
Jan 15th 1852.



My dear Sir:

I just now received your welcome letter of Sept^r 4th and 15th 1851. — In one of them you allude to a letter having been written in August and expressed the hope that I had received it before you wrote. — I am sorry to say that it has not yet come to hand. The ones now acknowledged and one of 16th Dec^r 1850 are all that I have had the pleasure of receiving from you. — Dr. Parry arrived with Maj Emory early in December and brought up with him many new things all of which I believe he has sent to you. — At the same time (20th Dec^r 51) I sent to you quite a large collection — all in fact that I have made in this region. Among them you will find the *Leosmidium* spoken of which I think is not true to your description in the Flora and should belong to another genus. You however must know best. — You can easily decide the matter when you get good specimens. — Mr. Wright tells me he has never before seen the *Liatroid Composita* I sent you so that I suppose it will be something novel.

Mr. Wright has in all likelihood collected and saved what of the *Eriogonae* I have missed. — There are 8 or 10 well marked species of them here and I am pretty certain I have missed some of them. I had some very pleasant though tedious rambles with him about the *Colbre* and *members*. — A day or two before we left there we

collected a beautiful *Alnus* 30 or 40 feet high in fruit. I had observed it in the early part of the season before and while it was in bud. — You will find them in my collections also I think some novel *Populi*. —

By the way with regard to the little *Inglans* I sent you from Devils River Mr. Wright thinks that this has been already published in some western collection but that the one we send from the Leobse is new. — I was too late to collect the one below in flower. — Although they appear to encroach upon each other they seem to me quite distinct. — I enclose a drawing of the one from Devils River made on the spot by Mr. Kettlewell. — Dr. Parry contemplates starting in a few days down the Rio Gila in company with Maj. Emory. — Mr. Thurber went with the Commissioners in August last at the season in which he went he will find a fine novel field. — Mr. Wright with whom I am best acquainted was detailed by Col. Graham in Nov.^r to survey the Rio Grande but fortunately for him the season for botanizing was past and I think they will relieve him and permit him to follow his old pursuits by the time vegetation opens in the Spring. — Where I shall be next summer I hardly know probably about the Mountains of Eagle Pass on the Rio Grande some 700 miles below this point. — I am glad to find you take what I consider the right view with regard to diagnosing and publishing new species of plants as soon as possible. Mr. Baillie seems to entertain a different opinion with respect to it. — I wonder Mr. Thurber does not send his plants home. If he attempts to keep them until he returns home to

work them up himself he will most assuredly be anticipated in many of them. - And the ultimate result would be a perfect Wilkes gallery, at least so far as the botany is concerned. - I have much ^{been} annoyed by the want of paper from the beginning - I am also somewhat cramped in my perambulations from the necessity of attending to my official duties as Surgeon of the Commission. - Books, Papers and other Publications especially on the Botany of this Country are rare as "birds teeth" and much needed by us out here. - I should be ten thousand times obliged by you and will more over remunerate you well if you would send me immediately all the new publications of Western plants that you can procure. - I started with Emory's & Fremont's Reports but unfortunately have lost them both. - The only books I now have are Gray's Botanical Text Book Lindley's Introduction (old London edition) and Humboldt's Views of Nature. - Your New Genera of Fremontian Plants will most assuredly be truly and gratefully welcome should they be so fortunate as to come safely to hand. - I wanted to get hold of Lindley's Vegetable Kingdom but was unable to procure it before I left home. - If it were possible I should be glad also to get a copy of your Flora of N. America I have a copy at home in Ohio but do not know how to get it out here. - The pamphlets and unbound books it appears to me could be sent by mail and if you could mail them at New York in time to reach San Antonio before the 1st of May next at which time a mail leaves there for this place I could certainly get them.

It will also probably be better to send directly to me rather than under cover to Mr. Baultelle as I suspect that is the way I have missed your August letter. - Moreover the Commissioners at the present time may be at San Diego or some other unknown place by which it would be a long time before I could get my letters. - He has not been heard from since he left - or rather since he was left at Santa Cruz by Col. Graham in September last. - Santa Cruz is a little Mexican town in the Province of Sonora about 2 days marches from the Rio San Pedro a confluent of the Rio Gila. - Mr. Wright was with Col. Graham at that time and collected some rare plants. - Yours
of esteem &c.

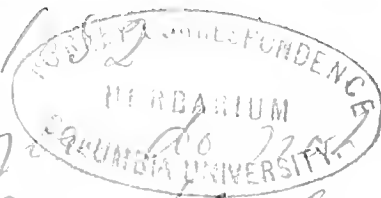
John M. Bigelow

P.S. Jan. 17. Since I wrote my letter I have seen Dr. Parry who was present at the meeting of the American Association for the advancement of Science and recollects how Prof. Agassiz was elated to find two species added to the small genus of *Euglenas* in a geological point of view. How much more will he be so to find that we have in something more than a year doubled the original number? You appear confident of our *Euglenas* being a new species! May they not be various forms of *E. nigra*? I only hint for information: But the one we find at the Cobne looks very much like an intermediate form between the little one and the *nigra*. -



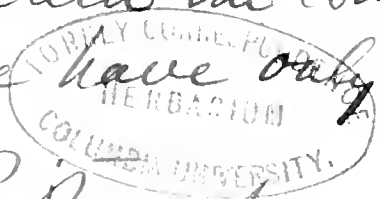
P.S. 102

Feb. 4th 1882



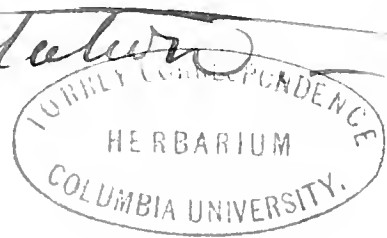
You say in your September note that you have made of my plants and I can hardly tell you myself. — There has been considerable difficulty with us in regard to the head of the Scientific Corps Col. Graham claiming it by the direct instructions of the department while Mr. Bartlett does so by implication he being obliged to receive the reports of Col. Graham. — I have never received any order written or verbal from Mr. B. on the subject excepting more than a year ago he appeared displeased

that I had sent my plants to the Smithsonian Institute that I had collected on the route from San Antonio. — He gave Mr. Wright & Mr. Clark orders to deposit their collections in Natural History at Mr. McGoffin's near El Paso which I believe they have neglected to do. — I hardly understand what object he has in this unless he intends to make the reports himself, or at least through some other agency than his Collectors which unless there be some public reason for it would appear rather unjust. I had supposed that what was done in elucidation of the Natural History and resources of this country the credit should come to those who perform the services and to entitle the Commission and its officers to due credit we have only to make our Reports to the Commissioners.



Dr. Parry has gone down the river in search of the Commissioners and Mr. Wright

is still engaged in surveying down the Rio Grande.
Since the arrival of Mr. Hadzimeński Maj. Emory
has returned an express having been sent for
him by Mr. R. — The Maj. himself will not go
down the river as he had at first contemplated
(within a few days Mr. Chandler of Philadelphia
has gone to Washington and expects to be back at
San Antonio by the 1st May so as to come up
from that place with the mail escort. — Our
last (January) mail from that place has not arrived
and is supposed by Capt. Skillman to have been cut
off by the Indians. If it could be possible for you
to send some of those things I mentioned by him
or by that conveyance I should be extremely happy.
I suppose however Mr. Chandler will have
very limited means of transportation.



Rec'd June 9/52

And June 7/52

Houder near El Paso

April 15. 1852

Dear Sir —



Your letter of 20th Jan. 1852 was received last month but on account of the uncertainty of the time mode and destination of our next movements I postponed an immediate answer in hopes I might get some reliable information on that head soon to communicate. — I find you have been referring to several letters you have had the kindness to write me which I have not received. — The accident I presume has occurred in consequence of their having been enclosed under cover to Mr. Bartlett. It will be much better to send them directly to my address. — You express some doubts in your letter about receiving any more specimens from Mr. Wright or myself by why I can not imagine because I sent directly to you under the auspices of May Emory all the plants I have collected for the year & more past in this neighborhood. — I sent them in Dec. last by Col. Graham as far as San Antonio and hope you have received them. convey this. May Emory has expressed some doubt about your getting them but what object

Col. Graham could possibly have in with-
-holding them I can not divine. He cannot
by any possibility derive any credit or other
benefits from them without either going through
your or Dr. Gray's hands. - In either case
I hope to get the small degree of credit
I deserve for my fidelity and labor in collecting
them. - Mr. Wright & Dr. Parry are both ~~now~~ here
with me and we are every day nearly one way
or another, getting hold of entire novelties.
When Mr. Thurber is I can not tell. May
Emory sent Mr. Ingraham & Dr. Parry in
search of the Commissioners who went as far
as the Pinos Villages and have returned within
a day or two. - We were most truly rejoiced
by their safe arrival as there had been reports
in circulation of their having been cut off by
the Indians. - They brought us word that
the Com^{rs} had embarked at Guaymas a
little town in Sonora on the Californian
Gulf for San Diego and that Dr. Webb and
Mr. Thurber had passed through the Pinos
villages in January en route for San Diego
also. - It may be that Mr. Baillie in-
tends to come out with a full report of his
doings and to have a copious botanical
appendix but that he intends to include my
plants with Mr. Thurber, is more than I can say

I presume not however from the fact
that he has given me no instructions or orders
respecting them: nor has he ever afforded
me any facilities for collecting excepting a very
trifling amount of transportation. Even
should my plants go to help fill up his collections
appended I should feel extremely unwilling
for any one to work them up but yourself
Dr. Gray or Dr. Engelmann. Our next move-
ment in all probability will be to Presidio del
Norte from thence to Eagle Pass. May Emory
hopes to start by 20th of May next. Something
may turn up however between this time & that
to prevent us. — You will please direct your
letters to this place until we are certain of moving
down the river. — The country between Presidio
del Norte and Eagle Pass has never I believe
been explored — (at least not by a botanist) and
Mr. Wright & myself are promising ourselves a
rich treat should we have the good fortune to
pass through there in the height of the botan-
ical season. I sent you some seeds and
a long (probably tire some) letter by the Feb'y
mail which I presume you have long since
received. —

With my best respects I am yours
truly John M. Bigelow

Prof L. Torrey

P.S. Dr. Parry tells me he believes it is the intention of Maj. Emory to send him home to assist you and Dr. Gray in elaborating the natural history of California New Mexico & Texas. — I am not certain the measure is definitely determined upon and my information was obtained confidentially.

If Dr. Parry Mr. Wright Mr. Thurber Mr. Schott and myself were to unite and have our collections in botany published as contributions to the Smithsonian after the manner of *Plantae Wrightianae* giving each contributor just and due credit it would make a memoir far better and more creditable to us all government included than to have each one published separately or to have them scattered in a variety of scientific journals.

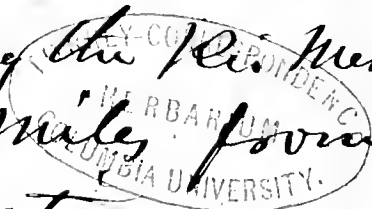
Such would be my plan if I had a vote in the matter. —

Dr. Parry's return will give us an opportunity of sending you a variety of new things. — We are about starting to day on an exploring trip to take Guzman into which several rivers or rather rivulets from different directions empty themselves one of them being the Rio Grande. It is supposed to be about 60 miles from our Rancho in a south westerly direction.

Respectfully

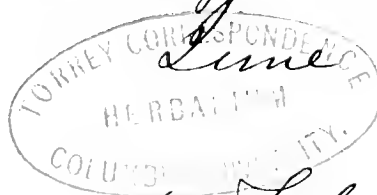
J. M. B.

April 16. 1852



Recd Aug. 6th - Aug 10th by
on return from IV B.

Camp near San Elcario
June 8th 1852



Dear Sir:

Your letters of Feb'y 9th and March 20th were received by the same mail May 20th. The reason of my not getting your Feb'y letter sooner has been on account of the imperfections of our mail arrangements in this country. - Had it been mailed early enough to have reach San Antonio by the 1st of March I should have received ^{it} two months ago. But why my letter of 12th Dec^r should have been so much longer in reaching you than Mr. Schott's when transported by the same mail is certainly odd and not referable to the imperfections spoken of. - Mr. Wright goes home charged with the collections we have made this season and to see after our interests as well as his own in them and also those already sent. - I suppose May Emory would have rather sent Dr. Parry on the same mission on account of his having been more closely associated with him in the California explorations but that he wanted him to observe and note the geological position of the region through which we have to pass the coming season especially the mountainous country between Presidio del Norte and Eagle Pass and no one else in the Commission being so well qualified for that duty as Dr. Parry. -

Mr. Wright goes soon say about the 15th of the
present month and will probably be associated
with yourself and Dr. Gray the coming season -
He will have a pleasant and happy time of it
and well he deserves it. - Besides being a scholar
and a gentleman he is one of the most industrious men
in his profession I ever knew. - Dr. Parry with whom
I have not been so long associated also appears to be
equally amiable intelligent and gentlemanly. -
You are probably better acquainted with both of
them however than I am. - Mr. Wright will
leave with us Torrey & Gray's Flora Fendler plants
Wright's plants and I have a copy of Lindheimer's
and Wiegmann's plants and Gendley's introductions
so that we can get along much better than we
had anticipated and do not sensibly feel any
disappointment in Chandler's not bringing us
what we had spoken for. - I want the same dis-
position made of my second parcel of plants as
with the first and a full and complete set reserved
of all the plants I may collect for the Smithsonian
Institute although they had not the graciousness
to acknowledge the receipt of those I sent you
through them, thinking perhaps your acknowledg-
-ments sufficient. - Mr. Wright in person & my
enquiry by correspondence will doubtless confer
with you respecting the best plan to be adopted
in reference to them. - Mr. Wright & Fendler

Plants have been published as far as *Compositae*
in the Smithsonian Contributions. — Beyond *Compositae*,
=positae a great many more new & interesting species
have already amassed and being discovered.
If after this a union of all our collections could be
effected and published altogether in continuation
of those contributions giving each collector his
due award it would make something creditable
to our government and detract nothing from the
merits of those engaged in it. — Due & deserved
credit would come to Maj' Emory Mr. Barlett (if
he would unite) and Col Graham for their liberality
and zeal in promoting and assisting collections.
Yourself Dr Gray Dr Engelman Mr. Sullivant & all
others engaged in this determination and reduction
for your zeal and learning while the humble collector
who undergoes much fatigue & privation as well as
danger should not be forgotten or neglected in the
roll; for if we can not make the music we are
necessary in raising the wind so essential in success-
fully playing the organ of fame. The plants I send you
by Mr. Wright I hope you will find in much better ^{order} than those
sent heretofore. — Over crowded as my specimens were
at that time I had hardly paper enough to send them as
it was. This year I have abundance and am not under the
necessity of crowding them in so small a space. — In all our
collections this year you will find a beautiful *Aquilegia*
with yellow flowers. — I enclose a fragment which will give you
an idea whether it is new. — I fear however it is too com-

= specimens to have escaped all the botanists who have visited this region. - I saw it last fall when I visited the Organ when it was out of flower collecting only a very few (say half a dozen) seeds, and only suspected it to be different from those in the Flora from the rarity of such plants in this neighborhood. - I sent the seeds to my wife and do not know whether they have succeeded in germinating them. When Mr. Thunberg was in Sonora last summer he collected the same plant and should it turn out to be a new species, I should be glad to have him anticipated in his nomenclature for withholding his collections so long and selfishly. I have made arrangements with Mr. White the Postmaster who lives at Fort Fillmore 12 miles from the place where we collected it to have collections of the seeds made. - I left with him your address so that if he does not reach it you will certainly get some of the seeds in the course of the fall. - With regard to my first set of plants Mr. Baillote said he cared little or nothing but intimated a desire that my future collections should go to make up his botanical reports; but he never given me any order respecting them. All the expense of collection except a very trifling amount of transportation has been paid from my private means. - His promise of a supply of paper prevented me from furnishing myself with a proper supply at home while out here it was difficult to obtain at any price. - I must have made a sad blunder with my pen and substituted the name of Mr. Radzimirski for that of Mr. Salazar. Mr. R. is an officer of the American Com. mission while Mr. Salazar succeeded Genl. Condie in the Mexican Com. mission. The letter to Mr. Scott enclosed to me I forwarded to him at Eagle Pass by the first opportunity. If I do not get a letter from you by the Santa Fe mail which is now due I can not hear from you again short of two months. We start in two or three days to Presidio del Norte - which you next letter to "Leona Station Texas" Respectfully J. M. Beal

Recd. ~~Sept 2~~ Aug 20
Am. Sept 5th

Camp Bache near Rock
Creek July 8. 1852. —

Dear Sir,

A Mexican requiring amputation of the arm and the necessity of leaving a party at this place to await the arrival of "Lightning" train from San Antonio, is the reason of my dating from this place. —

This is the point on the San Antonio road when our way to Presidio del Norte diverges. — Maj. Emory and Dr. Parry have gone on since the 4th and I presume by this time are at Presidio del Norte. —

It is difficult to find any thing in these dippings that have escaped the eagle eyes of Mr. Wright. — 1st I enclose a composite growing very abundantly very near to Baileya and also a variety if not a new species of the same genus to which I am unable to refer to any description in your Flora or Wright & Fendler's publications. —

I also enclose an evergreen shrub shrub near to Rutaceae which does not appear to be in any publication we have. — I collected at Flourer mountain the only locality I have seen it on the Mexican side of the river about 3 or 40 miles below San Elceario. — In a low plain place I also picked up a few specimens of a kindred order which we are unable to refer. From its appearance and growth I inferred it to be some very common herb expecting to meet it again in which however we have thus far failed. — I have collected 2 specimens of a Dalea one of which I send which appears to be intermediate between D.

Wrightii & Janiesii - leaving out the minute
& probably more characteristic destruction,
not having Nuttall, gen. I have no description of
D. Aurea which this may be as it appears to
differ from the short description of Wana
yet I see Mr. Wright collected near this place
(Pass of the Limpia) a tall one much resem-
bling the aurea. - I hardly expect it is any
thing new!! In a deep mountain pass
I found but a single specimen of Streptanthus
which if not new must unite Fendleri
S. micranthus with S. longifolius (Benth.)
I shall go into the mountains again in day
or two expressly to get more of it. - If I
can put it up easily I believe I will send my
only specimen and trust to fortune for more
I send a Chenopod with ripe fruit which
you will have long since decided in a younger
state in our collections heretofore sent -
I send also an Aristolochiaceae without
any anticipations of its being ~~any~~ new however.

I see by the Pl. Wrightiana that Dr.
Gray has made sad havoc of the very little
contributions to Botany I have made in this
country. - My means for collecting and
preserving plants heretofore have been very
limited and my ^{true} occupied by profession-
al duties so much that I have been unable
to put what I did collect with the neatness
of a professed botanist. - Yet humble as they
are the little that is due should be given with
a small degree of care & precision. For in-
stance the ripe fruit of Roberlinia speciosa
which determines the order to which it should

belong which I sent you never cost the
"N. S. Boundary Commission" the
first red cent yet is given them
without the least reference to my
name. — So also of the barpho-
-chaete ~~pretended~~ⁱⁿ to be named for me is
referred to another name. — I cheerfully acquit
Dr. Gray of intentional blame in this matter
yet as they are almost the only references to
what I have collected out here one of them
should be correct. — I probably may feel
more sensitive on this subject because
I have labored hard and it appears
I am destined to bring forth less
than the fabled Mountain. —

My present indications we shall all
probably be home in the course of next
winter. — Dr. Parry thinks pretty certainly he
will be home early in the winter if I should
not. — We shall soon see. — This has been
a dreary country & nothing but the interest
I take in botany reconciles me in any degree
to it. — If you decide this in time to answer
by the 1st of September direct to "Liona Station
Texas" where we shall probably remain
until about the 15th October. — I shall
feel most happy in getting a communication
from you at that place. — I feel pretty sure
that you have long since received my Copper
mine collections. — One word with regard
to postage. — I am almost ashamed to send
my numerous communications without pre-
pay ment, but it is a matter out of the question
I am several hundred miles from a post office.

and have always been inconveniently
situated with regard to it, and
having no post office stamps I
have been necessarily obliged to send
without or not send at all. If you
will have patience I can in one way or
another make it all right.

With sentiments of high regard
and esteem I am your obd.

Sincerely

John M. Bigelow

P.S. My two papers and Crooked Chir-
ography will make you believe you
truly that we have heard true. - The wind
and sun & dust make it difficult for the
best ~~of~~ penman to satisfy himself with his
work. I know you will excuse me.

July 12th. In addition to the plants put up mentioned
above I send another compos. Somewhere between
Hymenotterium & Linosyris which I ought to be
able to determine if collected by Mr. Wright.
I send a little Eriogonum which may be very com-
mon. - I have found more of the Dalea Nana
which appears to be rather rare but you will
agree that it is D. Aurea. I think.

Respectfully yours

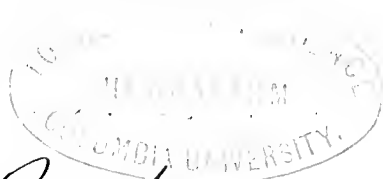
J. M. Bigelow

Prof. Wm. Lerry.

CORRESPONDENCE
HARVARD
UNIVERSITY

Recd. Aug. 30.

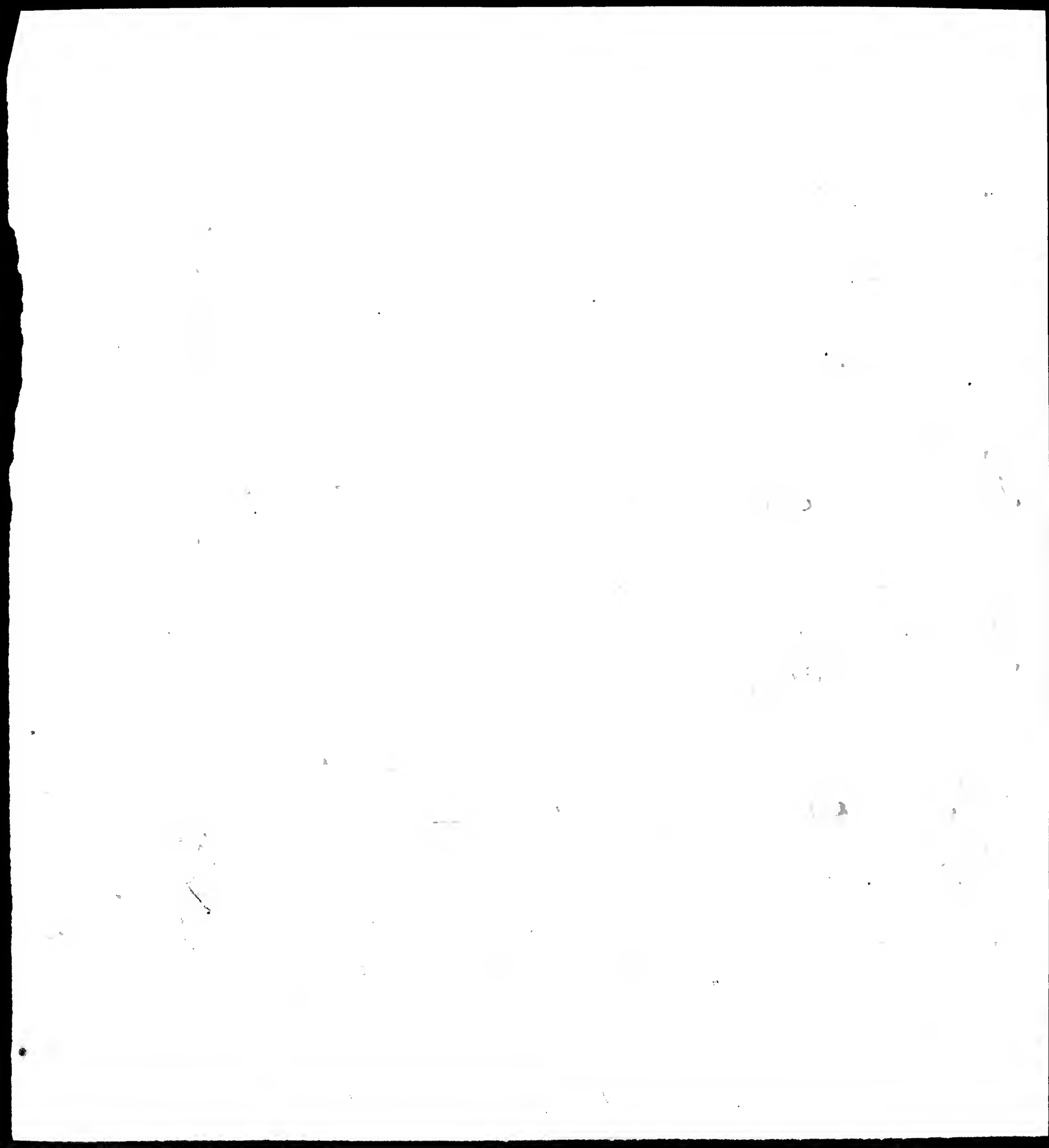
Ans. Sept. 5.



July 12. 1852 Camp Baché.

Since I wrote my last P.S.

I received a note from Dr. Parry at Presidio del Norte. He says *Le creus Greggii* with ripe fruit is abundant down there. I have collected it also here at the mountain of the Musito. I also collected at that place a *Clematis* sp. nov. which I presume is the same he has collected there & appears abundant here & there. — I enclose a fragment in this letter and should have done it in the package of plants but it was too green and damp to put with them when I made it up. — Dr. Parry also informs me that the prospects of much success in botanizing in that region is rather dry literally as well as figuratively. — "The River is the same old serpentine desert table land and bare mts." He also informs me that he has found a new *Echinocactus* on his route but he does not say whether he collected fruit or flowers or either.



Wm. Emory

Am. Dec. 11/52

Gayle Pass Nov. 1. 1852
COLUMBIA UNIVERSITY.

Dear Sir -

I received your kind letter some two or three weeks since dated Sept. 5th - 7th but was obliged to go within a few days after to the mouth of the Pecos on the Rio Grande where Mr. Schott was engaged in surveying in consequence of the hostile demonstrations of the Indians and consequently had no opportunity of answering it until my return only two days since. - I avail myself now of the first return mail. - While up there I found on the northern slope of deep shady arroyos a Labiate florae different I think from the genus *Perezia*. - It is certainly not a *Perezia* in Pl. Wright. I enclose a specimen. - Mr. Schott and myself also found a very unique Cactaceae very near *Mammillaria* but altogether spinulose. It is very pretty and unique in its appearance. Mr. Schott has made a very good sketch of it which he may probably send you by another mail. He is now here under Maj. Emory and is much better pleased than when under the orders of young Leuits of the Army whose greatest ambition appears to be the gratification of sensual pleasures. - But for your kind recommendations of him to Maj. Emory he could hardly

have been induced to stay. - He has been obliged to do hard labor in the field with inadequate outfits &c. for which however he does not blame me; Elmony. - He has got through the worst and has had a very pretty field for botanizing the past summer which he has handsomely improved. -

He requests me to tender you his best respects and to tell you that he is so busily arranging his plants to send home that he has not time to write this week but will do so next. -

You say you long ago wrote me an acknowledgment of the receipt of my Copper mine plants I have never received it and the first intimation I had of your receipt of them was through Mr. Schott on my arrival near here. -

The Rutaceae I collected on Flouner Mountain Mr. I have seen no where since. Possibly Dr. Parry may come across it on his voyage down the river. - I looked diligently for the flowers but it passed apparently but a short time before.

Almost all perennials bloom 2 or 3 times in this country so that should Dr. Parry come across the plant he ~~will~~^{may} find it in bloom and he will not neglect it. - I have a good many specimens of it in fruit. - When I first found the plant without fruit from its Terebinthinate smell I took it for Coniferae and when I found by the fruit it did not belong to that order it struck me as being something peculiar and I gathered

all the fruiting specimens I could find.
Again I am sorry I could not find.

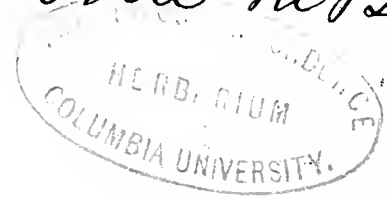
I enclose also a letter to Mr. Wright which
you will me the favor to forward to him should
he not be with you.

With sentiments of much respect

I am yours ever

John H. Bigelow

Prof John Torrey





Rec'd Dec 10.
and 11th

Ray Pass Nov. 15. 1852

Dear Sir: —

I received a few days ago two letters from Mr. Wright dated Oct 4th & 7th. He had not yet seen you but expected to do so in a very short time. — He informs me that Dr. Gray is "down" on him every now & then in consequence of his bringing home large quantities of trash supposed by us to be "brand new" and then frequently not getting enough of really interesting plants. — Dr. Gray may in some measure thank himself for this state of things. — In Pl. Wright: for instance the names of a great many plants occur which are new to the American world at least and which are only enumerated; references being made for descriptions &c. to some European publication, none having been made in an American book. — Well now how are we, away off in the woods or mountains, with a scarcity even of American books, to determine what has been collected heretofore by each other. — I would defy Mr. Wright himself in many instances to point out his own baultings. Now Pl. Wright: would be much more valuable for reference if a short diagnostic description were appended to every plant not described in your Flor. of A. A. or some other American work, even if it had been previously described in European.

works to which it is impossible I have every day reference. - I turn however to my critics.

Mr. Wright writes me that he wants a new genus *Glossopitator spinescens* in fruits. It is a plant he collected at Frontera under the impression that it was *Adolphia infesta* - I recollect them both well but have not seen the Greek jaw-breaker since I left Frontera. He asks me to look out for it! It does not grow here and you might as well look for it in the streets of New York or Cambridge. But in my collections sent by Mr. Wright you will find it in young fruits and if you see proper you may communicate it to Dr. Gray. I should have written to Mr. W. but he expected to leave soon so that my letter could not reach him in time. - By the way May Emory appeared to think Mr. Wright was wrong in diverting his public plants to private purposes by having them published in continuation of P.C. Wright and appeared to me somewhat annoyed when he found you had turned over to Dr. Gray the plants collected by Mr. Wright under his order. His whole time & expense was for botany exclusively and was paid for out of the Public Treasury, while ours was for other purposes and the time not spent in special duties were only devoted to these collections. I hope there will be no difficulty in the matter. Mr. W. has worked hard but he has also been well paid especially under

May, Quincy: -

I have had a long letter from Dr. Engelmann who is highly delighted with our collections of Cactaceae. He wishes to get the flowers also as soon as you can conveniently forward them on to him. I believe it was, May, Quincy, wish that the Cactaceae should go into his hands.

Should not Wright from any circumstances not leave as soon as expected and is still near you give him my kindest regards. - I had written him a few days before I received his kind letter. - Dr. Parry is by this time at Santa Rosa about 90 miles west of this. - Mr. Schott & myself are going over in a day or two. - Mr. S also I think writes by this mail. -

Sincerely & truly I am yours

Wm. H. Peckham



John M. Peckham

Prof. John Torrey -

11



2000

1. 2. 3. 4. 5.

22

2000

ملکوت و مملکت

2001

2. ...

مقام

1990

Number of hauls	<i>A. balearicum</i> (%)	<i>A. balearicum</i> + <i>A. balearicum</i> + <i>A. balearicum</i> (%)
1	100	0
2	50	50
3	33	67
4	25	75
5	20	80
6	17	83
7	14	86
8	13	87
9	11	89
10	10	90

Recd & ansd Dec. 23

Columbia University
Gage Pass Texa. Nov. 24 1832

Dear Dr. —

Your welcome letter of Aug. 10th was received some time after the one of Sept. 5th but I forget now whether it ~~came~~ came to hand before or after I answered your Sept. letter. — At any rate I need no apology for writing at this time because I send you two Boxes of plants the fruits of my summer work after Mr. Wright left for the States.

Among them will also be found a bundle collected by Mr. Schott in this vicinity. — I commit them to the care of Lewis and Groesbeck of San Antonio who will have them forwarded from Indianola or Lavaca by the 1st Steamer directly to New York. — I have made arrangements for the payment of the transportation to the sea coast. — In accordance with Maj. Emory's

verbal instructions we have sent them to you for the "Smithsonian Institution" by which I suppose he means that the ^{cost of} ship transportation is to be furnished by the Smithsonian. — With regard to my plants I desire the same disposition made of them as those heretofore sent.

The Smithsonian Institution are to have a full set. I have retained no duplicates and of course shall expect to get one full set for myself when I return. Those for the Institute I suppose can be made out when I return also as well as before. For your kindness and trouble in taking care of them especially of those

I return for myself I hope (and that soon now) to
render an equivalent that shall be satisfactory on
your part. — In the mean time I can only express my
thankfulness for the liberality heretofore expended on
my accounts. — Mr. Schott I presume will write you
fully with regard to the disposition he desires made of
his plants. — I have an idea you will find his collections
much more interesting than mine notwithstanding Mr. Wright
has been over the ground before him. —

Major Emory has been gone some 10 days. — When he first
started it was with the intention of stopping at Laredo
and making Astronomical Observations in connection of
the Survey. But on the day of his departure instructions
from the Department of the Interior were received leav-
ing it discretionary with Mr. Bartlett alone whether to
continue the work of the Survey or to abandon it and dis-
band the Commission so that Major Emory has gone on
to meet the Commissioners at Camargo. — Although it
may appear singular it is nevertheless true that Major Emory
has been on the work nearly one year and has surveyed
between 800 & 900 miles of the River or from Donana
to Laredo (with the exception of a small fraction above
the mouth of the Pecos upon which Mr. Chandler has been
engaged and which he has lately been obliged to suspend
for the want of boats & provisions) without having
seen the Commissioners or even communicating with
him by letter more than once. About the time we
left Presidio del Norte Mr. Bartlett arrived at
El Paso and expected to join us in the course

of a month or six weeks. - The next thing we hear
of him he is on his way through the Interior of Mex-
ico to the lower Rio Grande. - This news was re-
ceived by the Commissioner himself accompanied
with a statement that it was necessary for him to be in
New York at an early date. - These facts in the pres-
ent state of the work rendered it imperative on the
part of the Maj to hurry on so as to be certain to reach
the Commissioner before he shall have left the time
for New York. -

With regard to the point where the boundary line on
the Rio Grande strikes the Southern boundary of New-
Mexico about which so much dispute has arisen
between Congress and the Executive Department it is
difficult to explain in a few words may occur of it
and I fear if I undertake it I shall tire your patience
Weston's Map appended as a guide to the Commis-
sioners and attached to the treaty is incorrect. But it
appears that the positions of Santa Fe and other towns
on the Southern border of New Mexico are relatively
correct as regards El Paso the only town near the
Northern border of the Province or State of Chi-
huahua but it is set about 20 miles too far north
on the line of latitude and also incorrectly on the line
of longitude. Now the gist of dispute between the
two parties arises from the view each side takes of
the error. - One side (Mr. Baile, Mr. Stuart,) arguing
that the topography is wrong and the parallels of latitude
are correct and the side (Mr. Mason & majority in Congress)

Whether the Texas Treaty is now that of Mr. Baillie giving it

that the topography is right and the parallels are wrong. -
I believe Mr. Baillie & the Secretary wrong because Col. J. B. -
William West Whipple Col. Graham & Maj. Emory as well
as Mr. Gray for a long time Chief Surveyor all Topographical
Engineers & much practical experience condemn it and
all who have been called upon to act in an official cap-
acity have either refused or done so under protest. -
Besides if Latitude 32 degrees 22 minutes north was
the point contemplated by the Treaty there was no
doubtly use attaching the maps because all the Com-
missioners had to do was to determine that point by
Astronomical observations. - These views were further
confirmed also by the fact that the Mexican Autho-
rities fearing that it might be fixed even south of
of El Paso made a special reservation of that town
in the body of the Treaty. - The territory in dispute
however lost or gained is not worth the ink I have
shed in describing it to you. - A point of para-
mount and national importance should be to
procure a military road to the Pacific Coast -
in that vicinity. - This however can only be by
special negotiation. - Dr. Parry is expected here tomorrow
or next day and as soon as he arrives Mr. Schott &
myself contemplate taking a tour to Santa Rosa
a Mexican town near the mountains about 90 miles
south west of this place. It being rather late for general
botany our chief hope is to collect seeds and probably
some rare cactaceae. - Possibly we may find our old
"Rutaceae" friend.

=moras before we can get away. — The Doctor has
had a rough trip through those intricate mountain
passes I have no doubt. — They say ^{the} region in
the vicinity of Santa Rosa is very interesting and
I hope we may find something worth communi-
cating. — With sentiments of high respect I am
your obt servant John W. Peyton

Dr J Torrey —

P.S. In your Sept letter you say you will discuss on the
arrival of Mr. Wright & with Dr. Gray the best mode
of publishing our discoveries — I have every con-
fidence in your honor & fidelity & may probably
may be house in take to take a share in it myself
Dr. P. is getting tired although Mr. W. wishes himself
back again. —

Recd. and. Dec. 23.

I enclose a sketch of it made by Mr. Schott.
You will also find plenty in seed in my collection.

The probabilities are now bright for our return home in a short time. — If Mr. Wright is with you give him my best respects. If I was certain he had not started for Texas I would write in answer this kind letter. —

Nov. 25. Mr. Chandler's party with Dr. Parry arrived this morning he has found some nice & beautiful things which I suppose he will communicate early. — We shall none of us probably be able to leave here before January as Mr. Emory has to communicate with the Commissioners below & send us relief from Camanche on Mat.



San Antonio Dec. 4. 1882

My Dear Doct^r. —

I received yesterday a long letter from Dr. Engelmann asking inquiries about the living Cactaceae collected & sent him by Mr. Wright & myself. — He enumerates 12 species of Mammillaria 8 of them new species & but one of them complete with respect to flower fruit & living plant. — He enumerates 11 species of Echinocactus 6 of them new ~~3~~ of them marked complete & 2 blank which I suppose ^{are} also complete because because the parts wanting in the others are indicated. — We sent him 11 leaves — 3 new ones 5 only complete. — We also sent him 13 (according to his enumeration) species of Opuntia 2 to 4 of which are only complete. — I may observe however that ^{he} has marked one as distinct of which I only sent seeds and is identical with another under a different name and he has also enumerated *O. bajeana* & *O. frutescens* as distinct which I am certain are identical. We have therefore only 11 Opuntiae. He informs me that he is now engaged in working out the Cactaceae to be published in the Smithsonian Contributions. — In the plants I sent by Mr. Wright & the ones I sent a week or two ago I have flowers & seeds of several which he much wants.

You will therefore have the kindness to communicate them to him as soon you can conveniently. - I should like him to get them before he commences printing off the Smithsonian Contributions.

We could not pack them with living plants & the bundle by themselves ~~were~~ ^{being} too small for boxing too large for the mail was the reason of our sending to you instead of direct to him.

I am on my way to visit Mr. Lindheimer. I find I miss some of your letters which I very much regret. You can hardly imagine the interest I take in the perusal of your letters unless you were a thousand miles from anywhere and had companions to sympathize with you only so much as to denominate you a "weeder".

I could not go to Santa Rosa as intended in consequence of not being able to get passports from the Mexican Authorities - If I remain in the neighborhood of the Sierra Madre however until spring I shall most certainly visit them whether I get passports or not. I do not suspend your correspondence until you find out with absolute certainty that I shall leave before I can possibly receive your letters. - I know that I am accumulating obligations that I may not be able to repay for a long time but the effort to that effect on my part shall not be wanting. Most Resply yours
Prof. J. Torrey M.D. John M. Bigelow

P.S. Dr. Engelmann has sent me a copy of his
notes on *Cereus giganteus* Hb. in Silliman's Journal
Give my respects to Mr. Wright should he be in your
neighborhood. I never go out into botanical regions
without having him always green in my remembrance



Dear Mr. Wright,
I received your letter of Nov. 8th and
I find Mr. Engelmann engaged in the pro-
-duction and editing of a German weekly
newspaper by which his time is so much
occupied as not to be able to devote much
to botany. By running over his plants I found
many interesting ones. His plants in general
are considerably injured by insects and the
probability is that the German species will
be in the same condition. I will write you
from Eagle Pass when I have more leisure
with regard to Mr. Engelmann's orders in relation to
new plants. I will ask you one simple question
however - are you holding all the plants I have
sent you as subject to Mr. Barlett's orders?
If you do I hope I am mistaken - Please let me
know as I get on you are sure things are so much
disorganized now that I am from no complaint
which will make it difficult to get on my
feet - the only thing I can do is not to be
in the way.

have but I do. I have written him before -
to meet him. I have written him before -



Prof John Torrey M.D.
No. 69. Crosby Street
New York

San Antonio Texas
Jan'y 23. 1853.

Dear Sir: —

Your kind letter of Dec. 23rd —
came to hand yesterday. — I arrived here
also yesterday from Eagle Pass on my way home
Dr. Parry left several days since and will probably
be with you by the time you receive this. —

On account of some small difficulties in getting
our baggage along Mr. Schott remained back
with our pack mules & baggage but will probably
be here this evening, when he will haste as fast
as possible to Washington. — If you see Dr. Parry
give him my kindest regards and say to him
I will write him as soon as I get on board
a steamer for home, when I shall have full
leisure. — I will also write you again in
answer to your two last letters which I have
received since my visit to Santa Rosa Nov. —
I will also give you then some account of it.

I write now for the purpose of requesting you
to direct your letters to my residence "Lancaster
Ohio". I hope to be there soon. — I have received
letters from Dr. Engelmann & Mr. Wright. —

With sentiments of high respect

I am yours truly

Prof John Torrey M.D.

John M. Bigelow



Prof John Torrey M.D.
No. 69. Croker Street
New York

6
New York, N.Y. March 17, 1853.

My dear, much -

I received some days.

Since your welcome letter of Feby. 28. and have neglected answering it sooner hoping to hear soon again from you acknowledging the receipt of our plants & in safe Pass. - Perhaps you have been saved being bored as I had intended in my lecture on board the Steam Boat in our voyage home to give you an account of my adventures and hair-breadth escape, in getting that "green Rattler" on my visit to the "Flowers" but the Steam-boat jared so that I was unable to write with any comfort. And since I came home I am very little better off on account of clearing & giving visits to a long list of old friends &c. However you may not yet get off as well as you think as I may yet perpetrate it, especially on account of the loss of the flower.

I have been looking more anxiously lately for a letter from you because Mr. Schott wrote me a few days since that our packages of plants from safe Pass had arrived.

With regard to the disposition of our plants you will please let me know as soon as you have anything to give me from my family.

By what I hear from Washington our
Government I judge is in rather a state of puzzle
I am told Congress has passed a deficiency for
the relief of Maj Emory's party but whether
any of it can be used for scientific purposes
is more than I know -

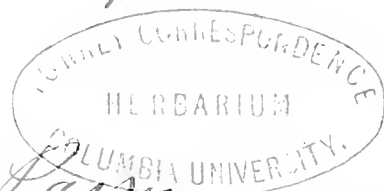
Most respectfully

Yours H

John M. Bigelow

Prof John May M.D.

P.S. I enclose a letter to Dr. Parry.



Recd. April 29.
and. ~ 30

Launceston Ohio April 22nd 1853 -

My dear Friend: -

I arrived safely at Columbus in 34 hours from New York but behold after arriving within 28 miles of my home it cost me 61 hours to get here. - I arrived at Columbus at 3 o'clock A.M. on Saturday but every seat in the coach for my town was taken. - Our mail is daily only through the week - Sunday having none - So I had to wait until Monday. - One of our doctors (are we not an enterprising set of fellows) has combined staying with the legitimate commerce of the pill bags and monopolized every mode of conveyance excepting private so that you are altogether at his mercy and can only go at the convenience of his will! If being under the subjection of any monopoly is odious it is that of the Slaves especially when you are in a hurry to get home.

In looking over Plant Wright: Part 2nd I find upwards of 60 items where plants were gathered while we were together. It is altogether probable I missed getting some of them but a reference to my Copper mine plants will show whether I missed them all or not. - The following from peculiar circumstances I recollect well having gathered before Mr. F. came to the Copper mines. Mosackin Wright's

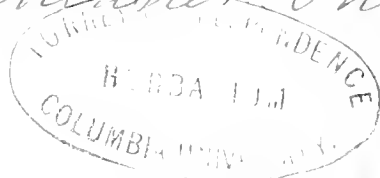
If the enclosed paper of Begonia americana seeds be

Asclepias speciosa, *Silene Greggii*,
Rubus Neo-Mexicanus, *Hieracium rubescens*,
Symphoricarpos rotundifolius, *Lapides*
Microanthus, &c. &c. and how many more I
can not tell because I am unable to identify
them from memory. — I have written Dr.
Gray upon the subject but have had time for
his answer. — With regard to my Coppen
mine collections, they were not made under Mr.
Emory's orders but entirely before he came into
the field and properly belong to the Smithsonian
Institute. — If Dr. Gray should persist in
the publication of *Plant. Wright. Fend. & Lindh.*
after Comp. under the auspices of the Institute
my Coppen mine plants should either precede
or accompany it. — From your not
having written I presume you have made no
arrangement with Mr. Emory with regard
to our collections. — Please write soon. —

I sent yesterday a package of seeds collected
last summer & fall in Texas which you
can share with Dr. Gray or indeed any other
person you see proper. — I have sent a
similar one to Prof. Baird at Washington.
Give my respects to your kind family & wish
I could assure you of my
wishes regard & friendship
Yours obt. servt.

Prof. John L. Gray to Dr. John W. Bigelow

Lancaster Ohio April 23rd 1853

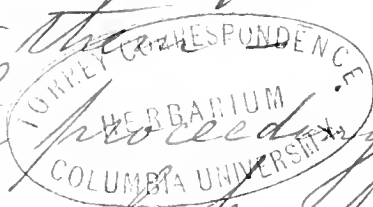


My Dear Maf-

* * * * *

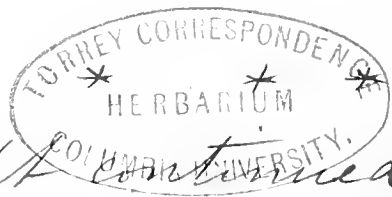
I have seen Dr Gray's Plant: Wright: part 2nd and on examination find that he takes entire credit for every new plant in our Lake Luzerne excursion without so much as even intimating that I had been in company with him; although you may well recollect giving us the privilege and outfit at my express instance. I had collected while at the Copper Mines a good many new plants before he came up and also many others while there in company with him. Such of them as he collected after his arrival ~~are~~ introduced into his new book without awarding so much credit as mentioning my name in their connection. His present publication extends and includes plants as far in the natural orders as compositae; - about one half of the flowering Species - From Dr Gray's introduction I perceive it is his intention as soon as he gets time to continue the publication of the same in the orders after compositae with the addition of Fendler, & Lindheimer's plants which if done will deprive me of much

credit that is truly my due. - Many of my copper-
mine plants were collected before he came up
under Col Graham; and many others were collected
contemporaneously with him. His plants collected
under Col Graham as well as those collected under
your orders are I understand in the hands of
Dr Gray - Many of mine were gathered before
Col Graham came into the field and all of
them before you came yet I consider them
and always have - as belonging to the proceedings
of the Boundary Commission - If you look at
the practical operation of these matters you can
- not help seeing the predicament I am in -
I have not been required by Mr Bartlett to turn
my copper mine plants over to him nor have
I ever had a desire to do so yet by being placed
between you & Col Graham, I have been com-
pletely fleeced and see not how I am to get
relief, except you and Genl Campbell are able
to give it me. If Wright's plants collected
under Col Graham could be held back or
brought forward simultaneously with our
some reparation could be made and it would
not be quite so bad. You can prevent him
from bringing out until the proper time - those



collected under your orders: but whether you have
the same power over those collected under Col Gra-
ham I do not know. If you or Genl Campbell
have not those of mine gathered before your arrival
should have the same chance with Col Graham's,
and although their prominence would be but
secondary in combined Wright Fendler & Lindheimer's
book. I could yet secure a secondary priority for
them by letting them be united with theirs in
the first publication

* * * * *



Be pleased to accept continued assuran-
ces of my sincere regards truly yours
(Signed) John M. Bejlor

May 11th 72 H. Emory U.S.A
Ch: ast: & Sur: U.S.B.C

Tru vchast
M.B.L.



Lancaster O. May 21st 1853

Dear Doctor

I received yesterday from Leitch Whipple the Commission of "Assistant on the Southern Railway Route to the Pacific" and "assigned to duty as Surplus Botanist to this expedition"

Here I to wait until I know when I shall start before writing you I fear I could not have time for an answer but would be much pleased to have all the suggestions you can think of with regard to the collection of plants in that region. — Please write freely and candidly on the subject and direct to the care of Leitch Whipple. We are to meet at some point on the River Mississippi the exact point to be designated soon. — I expect to leave home about the 30th Inst.

Most Respectfully
Yours &c

Prof John Torrey M.D.
New York

John H. Sargent



Steamer James Robb
June 13. 1853 -

Dear Doctor -

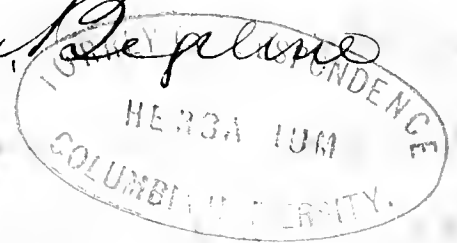
I expect to be at Apoloon in the morning where I am in expectation of letters from you. - I write now because I will have more leisure on board a pleasant Steamer than when in the great haste of preparation for our long tramp across the plain. - I spent parts of the 2 or 3 last days with Dr Engelman looking over our collections of Cactaceae and getting items for more. - In the botany sent home to you are some diminutive looking stems flowers and I think some orange colored fruit of a cylindric Opuntia gathered on the Rio Grande near the Canon between the 15th and 18th of June 1852 - There were some peculiarities about the fruit flowers stems giving it an appearance somewhat different from the vaginata or frutescens with which it was associated. - Will you please have the kindness to send some of the stem, spines

flower and fruit to Dr. Engelmann
He wishes to compare it with others of
kindred affinity. -

I shall look for a long letter
from you when I get to Napoleon giving
me advice how I may best secure
all the novelties I come across. -

With sentiments of esteem
I am yours truly

Prof John Torrey M.D. John M. Repland
67 Crosby St. N.Y.



P.S. I enclose to Dr. Parry please forward
to him if he is not in New York. -

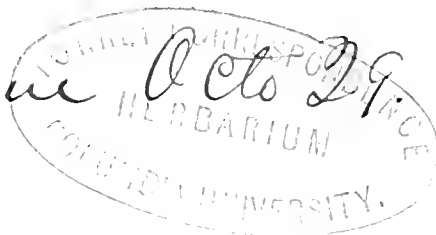
Give my best respects to your kind
family. - Yours &c.

Recd. Dec. 1

Ans. Dec. 20th

- letter directed to
San Francisco.

Albuquerque Oct 29. 1853.



My dear Dr.

Enclosed is a letter, for Dr. Parry which I send you by his direction I received a letter by the present mail from Prof. Baird to whom I had sent two Boxes of plants one from Choctaw Agency and the other from Beaver near Fort Arbuckle some 200 miles in the interior Prof Baird had not yet received the plants. He was at Burlington Vt. and before his return to Washington would see you and Dr. Gray and have an understanding with you in reference to my plants? - I sent them to Prof Baird by the direction of Genl Whipple who had left money in the hands of the Prof for the payment of transportation &c.

I have received also a letter from Dr. Parry in which he informs me he intends to spend the coming season in New York I suppose principally making out his Boundary report. After which he intends retiring to the shades of private life.

The collections I have here can not be
be sent to the States before Spring when
the regular trains cross the plains. -
I have been and am still as busy as
I can be packing up my things to send
home then, and also preparing for my
long and arduous trip across the
Colorado valley. - Be kind enough to write
me at your leisure with regard to the
disposition of my Boundary plants. -
Dr. P. says that I need not fear that he
or Schott will Wrightize me out of
my proper rights. - I write to San-
Francisco California. I do not know
when we will get home. -

With sentiments of the highest
esteem I am yours H.

John M. Bigelow

Prof John Torrey M.D.



Sonoma California
May 13th 1854 -

Dear Friend

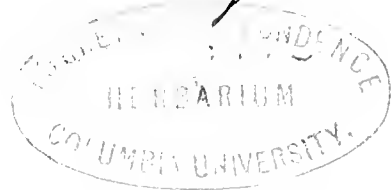
I shall start for home
by the 1st of June steamer and consequent-
-ly if no accident occurs I shall arrive
in New York in two weeks after the receipt
of this. - I have directed my wife and
Dr. Whipple to write me at New York
and direct to your care so that I can
get my letters without being detained
should I get in late per next curr. - I shall
probably remain in New York a very short
time before I go to see my family in Ohio
when my movements &c. will be in a measure
governed by the directions of Dr. Whipple
I have not time to tell you of the
success I have met in California
in the way of collections as I hardly know
myself - I have collected largely and most
of them are ~~new~~ new to me. - I shall
bring a large bundle which will be
left with you and then we shall see
what we shall see" - My time has been so
limited and occupied that I have not had an
opportunity to write as I ought - I shall spend the time
I have left in the Sierra Nevada in the

neighborhood of Sonomaville some 150-200
miles north of this. - I collected yesterday
a large scabrous *Pyrolaceae* but having
no books with me (all at San Francisco)
~~that~~ I have no means of determining whether
it is fresh or not. - It is very beautiful
Excuse my haste as the mail in the State
closed while I was in the mountains &
I have to send this to San Fran. by Express

Most Respectfully I am
your friend

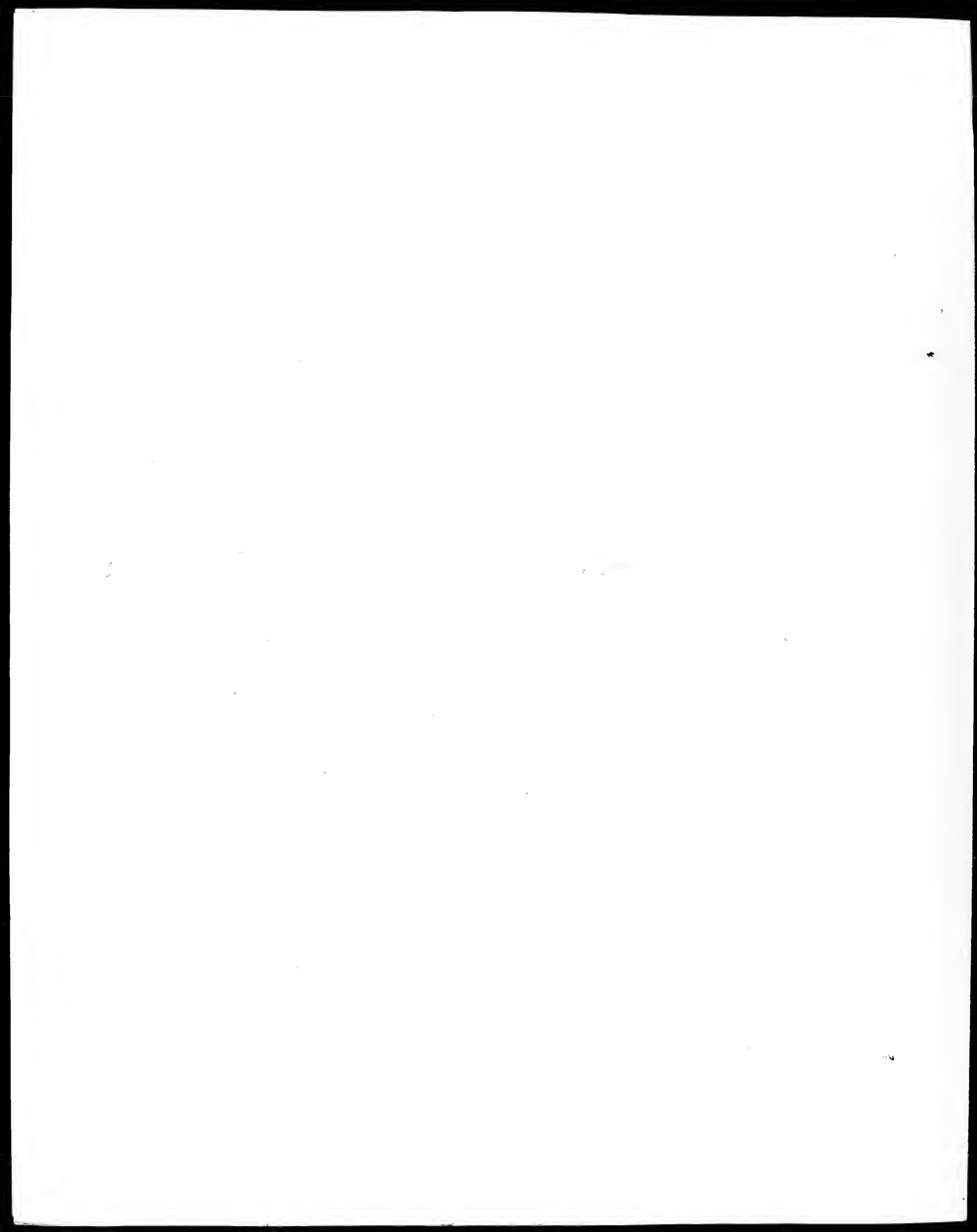
I am M. Bigelow

Prof. John Torrey -



100

100



Washington D.C.
July 11. 1857



My Dear Friend --

I arrived here yesterday and found what of our party remains in the City all quite well. -

I should be glad if you can box those living plants I collected on the Isthmus conveniently and send them here to the care of Prof. Baird who will have them properly attended to with our other collections by the public Gardener here. Nearly all the Cactaceae I collected are living and in a much handsomer state than I had reason to expect from their long & perilous journey. The Pancratium I should like to have sent also if it can be arranged. -

I shall be engaged for a week or two in making a statement of the Forest trees on the Route of our Survey and I shall be much obliged to you if you could make a small package of the Conifers in my collections which I would like to get illustrated before Mr. Mohlkansen leaves

You might send them over by express
worth the other things. -

Dr. Whipple is anxious to have a
Synopsis or ~~diagnosis~~ diagnostic des-
-cription of what new plants we have
collected made out and published in
some Scientific Journal as soon as
possible. Can you take hold of it im-
mediately? Please write and let us know
immediately. - Enclosed I send you a

draft of \$50. Hope your family are
in the enjoyment of health & happiness.

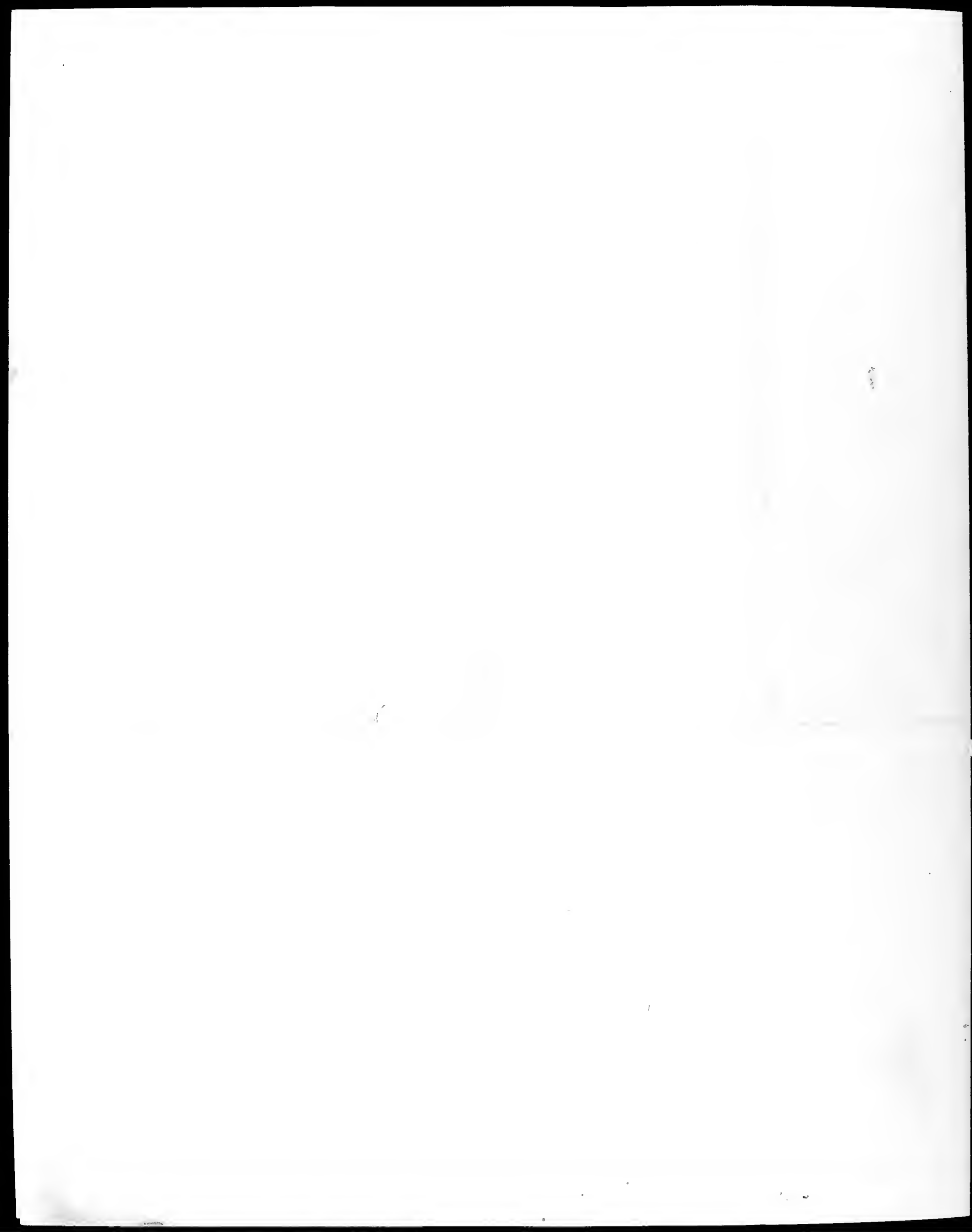
I found my own all well and highly
rejoiced at once more finding the
truest husband & Father -

God bless you & yours is the
sincere prayer of your humble &
obt. servt.

Prof. John Torrey M.D.

J. M. Biplow
HERBARIUM
COLUMBIA UNIVERSITY





Mr. J. J. J. J.

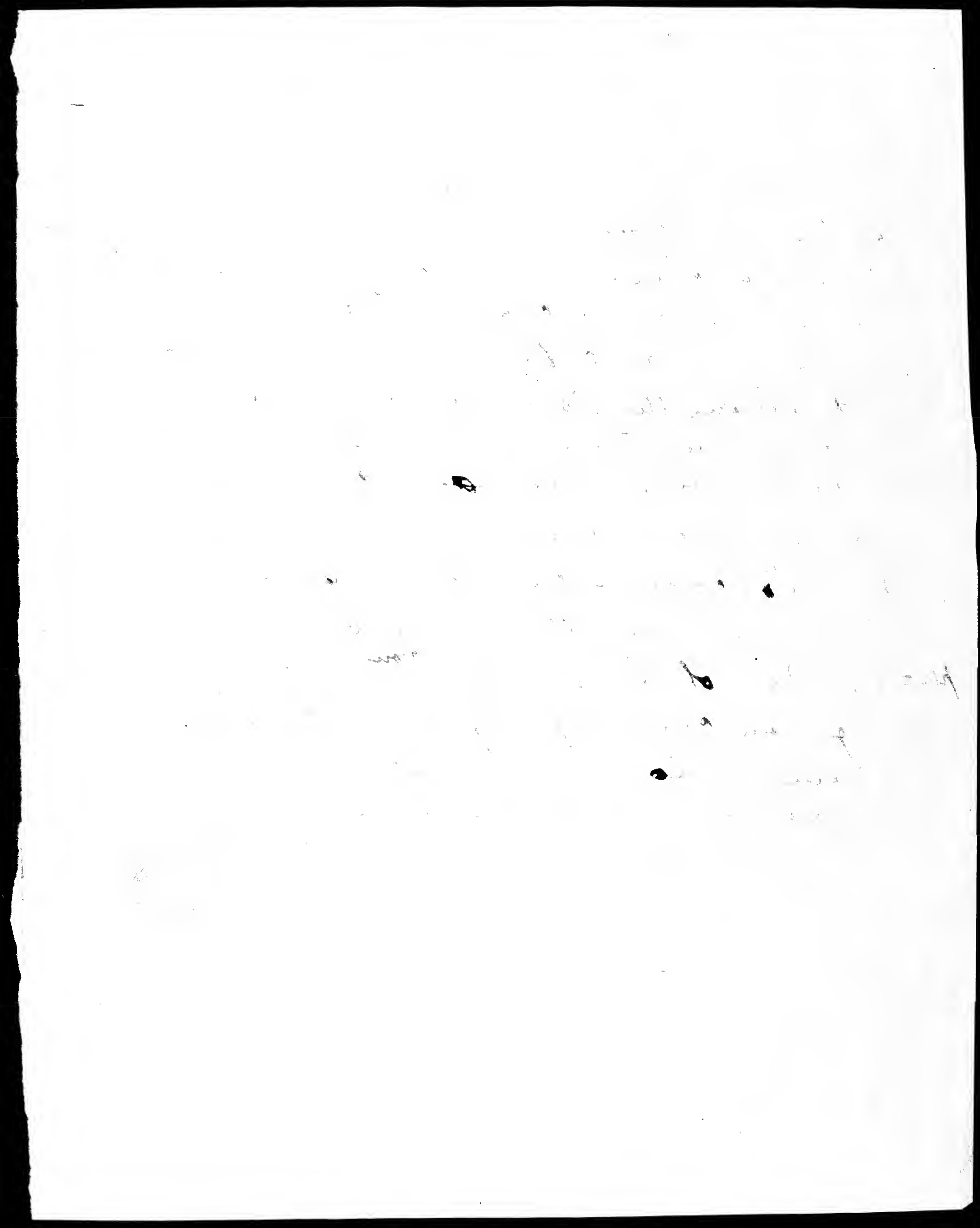
New York

Aug. 19. 1857

Dear Doctor -

I saw the lapidary who will
polish a stone for me and have at Pike's
the opacian. - I want it sent by the Express
with my microscope. - I made a bargain
with the stone cutter & paid Mr. Pike. - You
can arrange the stone for me and if it is worth
while and there is any thing in it I will
send some more. ~~and~~ give you some
pretty specimens. - See that I get a good
microscope. - Mr. Schott was anxious to know
how you were getting along with the Boundary
plants and I forgot to enquire of ^{you} definitely about them.
If you can say any thing to cheer him about
them do so. - I will write him when I get
home. - Give my best respects your
good family. Most respectfully
yours Wm. H. Beal





ST. LOUIS CORRESPONDENCE
HERBARIUM
UNIVERSITY

Sancastrick April 19th 1855

My dear Doctor.

It is but a day or two since I arrived from St. Louis. Your letter of March 28th was received by my wife some week or ten days before I came home but expecting me soon she did not send it. — This evening yours of April 16th came to hand.

Thank you my kind friend for revising and correcting the manuscript of my report. — With regard to the project of taking time to finish in a better style and printing in a separate volume the natural history portions of our Survey I should be pleased with the proposed plan but of course will have to be guided by Genl Whipple's direction.

With regard to the plan of printing &c of the Surveys by the authorities I probably know less than you — I received a note from Genl Whipple dated March 3rd in which he says Congress has ordered 20,000 copies to be printed and that

he depends on you Prof Baird and myself "to make our results worthy of so great expense". - "Mr Blake will also endeavor to do something for the Geology of the route". - Have you received an answer from Genl Whipple with respect to the proposition to publish - short diagnostic characters of the new species & genera before the full report is made out? If you have, let me know his views respecting it.

I remember well the Cornus I collected at Grass valley. - It looked so different from any I had heretofore seen that I supposed it might possibly be an other genus of the Family. - It is rather a small slender tree or shrub about 10-12 may be 15 feet high with a thin flexible top probably owing to its shady place of growing. - I only saw it at Grass valley which is near the Sierra Nevada mts. -

I wrote you some time this Spring all I know about the 3 distinct species of *Headsylinon* that I have seen & collected

About the Yucca, I fear I can help
you out of your "trouble" but little ~~except~~
especially with ^{your} reference to specimens: -

The one at "Pecan Creek" is the same as
one seen if not collected at Fort Smith
and Dr. Engelmann thinks must be the
Y. angustifolia of Ph. - The one from
Hunah Creek I took to be the same as
those collected on the Boundary of the ~~Copp~~
rivers. - It may not be the same but the
plant resembles it exactly. - This is
two plants without any thing but a
subterranean stem. - I found one
very common on the plains of Texas near
the Limpia Mts. and also in the neighbor-
hood of Presidio del Norte with a
large sweet juicy edible fruit - This
grows sometimes quite tall 10-15 feet
high. - The leaves of these two last
resemble each other almost exactly.
The fruit of the tall one is longer
but not larger and has much more
pulp than the smaller. - The pulp
of the smaller one is sweet however

I was much longer with Dr Engelman
studying Cactaceae than I anticipated
would ~~not~~ be necessary. — My
presence & specimens though impeded
from collecting at a poor season of
the year was nevertheless of much
assistance to him in clearing up
doubts with regard to many of his
previously published species. —
He tells me that a good many of mine
are very distinct from those hitherto
known. — Of the Echinocacti I found
but 4 species & 3 of them are new
& very distinct. — My Opuntia
were in better order many of them
having been collected in ^{groups} ~~series~~ —
and assisting him much in reducing
to something like order that very dis-
=orderly genus. — My paper spend
is out I will write more in a day
or two on your other points of
inquiry Yours sincerely in great
haste — Respects to your kind family
Wm. Beal

Ans. May 19.

LANCASTER Feb. 26th 1856
HERBARIUM
COLUMBIA UNIVERSITY

My Dear Friends:

Your esteemed favor of 20th Feb. is duly received, and I hasten to answer. — I observe you have mixed my yucca's labels. — But first with regard to the discrepancy on my journal &c. Camp 83 A. is the 83rd from Albuquerque. We put up at this camp on the evening of the 9th of March. — The specimen of Yucca that I put up there, I presume, was on the morning of the 10th before leaving this camp, and was collected the day before. — My journal for the 10th of March, was made at Camp 84, and I find noted that I collected "absolutely nothing" for this day. — My specimen, though labelled the 10th, was collected on the 9th. — You are right about its being on the Mojave. — You are right, also, about my first noticing this tree on Bill Williams Fork Feb. 5th. It is the same species, and the same as the figure made by Link Ins. The principal difficulty with the figure, with me, is that the branches are represented too erect; yet if I remember rightly, there is considerable variety in this respect. We saw this Yucca in a few localities on Bill Williams Fork, but after crossing the Colorado, and until we approach the Sierra Nevada, it is very common, growing in some instances, 30 feet or more high. The "branch of old inflorescence bearing four remains of capsules," is the Cujon plant, gathered March 16th 1854. The label is misplaced. — This is the plant of which I was in doubt, whether it was Agave or Yucca. — The scape is 5 or 6 feet high, and the leaves about 10-12 inches long. — The fresh capsule, with thin black seeds, is from the same. — Those leaves with rough margins, (whole leaf indeed scabrous) with broad dilated base, are from the tree Yucca. The one you sketched, is a young leaf from a branch of the tree Yucca, just beginning to swell for flowering, and are the primary leaves of the inflorescence. — It was put into the herbarium with no special object, & probably therefore not labeled. — It was torn to pieces by some of our men, & must have been put up for curiosity merely, as it affords no characters. —

In a box, mostly of Cactaceae, that was lost for a time

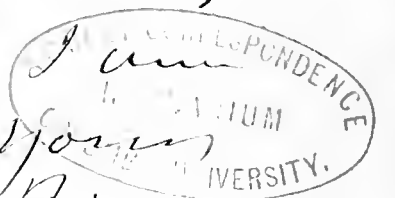
at Washington, but after the return of Prof Baird was found
and sent on to Dr Engelmann - afterwards sent to me from St.
Louis, I find: - 1st, Some young rooted yucca plants, that I was
in hopes would grow, of the large tree yucca. 2nd An other
small very narrow leaved filamentos edge, ^{yucca} collected at
Picacho Jan 12th 1854, a little east of the Aztec mountains. - This
is the only place I saw this species. It very much resembles,
however, one I saw at Presidio del Norte, in the summer of 1852
on the Boundary - specimens of which I think you will find
in that collection. 3rd, Some old broken capsules, and
imperfect seeds, of the tree yucca. 4th, Also some small thin
black seeds, of a yucca sent me by Capt. Whipple, from the Gila,
while on the Boundary. - These specimens are too large & rough
to send by mail - but I will box them & send ^{with} some other things
by express, when I hear from you again. - In a few days,
I will go more fully into the yucca questions. - I think I
heard you express a wish to get some daguerrotypes of some
of our old Boundary parties. Have you any of Schott, Perry,
and Wright? If not, write & let me know immediately. - With
these, some other things of interest to you, and what yucca specimens
I have, I can send. - I am looking every day for the finishing
stroke of our Cactaceae, from Dr Engelmann. He writes me that he
has received my *Loranthis* from Dr. Gray. - Capt Whipple knew
nothing of it. Is he to elaborate them for Capt W.'s Report?

Now you want the sketch of the tree yucca again? Well I will
put ^{in my collection} some leaves of two yuccas, collected east of the Pecos and
near it Sept 24th 1853. I have so noted in my journal. -

One of them I saw east as far as Fort Smith - the other, very
much resembles the one so common at the Copper mines, and
western Texas. Please write soon. Kindest regards to your
family With sentiments of the highest respect I am

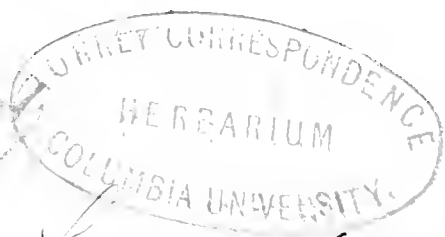
Most Respectfully Yours

John M. Bigelow



Am

July 2 - 1856



Lancaster O. Decr. 11th 1856

My dear Doctor -

Your kind and welcome letter of the 6th is at hand and I hasten to answer immediately. - I am making my bread & butter by hard work in my profession. - I received a letter from Dr. Engelmann on the eve of his departure for Europe on the subject of the manuscript Cactaceae P.R.R. with it and also with my general Report he found a good deal of faults - He ordered the proofs to be sent to Dr. Gray for correction and I understood they were going on with the printing of the M.D. immediately. -

I have heard nothing since from them. The Synopsis of Am. Cact. I had received some time ago. - The illustrations of Pines &c. were made for the P.R.R. of Capt Whipple. They were with Mollhausen's drawings of Cactaceae

and should have been sent to you
in the first place but by oversight
of Capt. W. were sent to Dr. E. with the
Cactaceae. — It would be well to send
them to Prestich immediately. Will
you please to see to it for me? —

Of the Pines No 4. is Dr. Engelman's
P. Brachyptera. No 5 is evidently
another species although closely re-
sembling No 4. — Whether it is an
undescribed species or not, I am
utterly unable to determine. Will you
have the kindness to do it? — I collected
it at the Cajon Pass, and also in
the mountains 15 miles above or
east of Sonora Cal. — Dr. Newbery
wrote me a short time ago and
gave me a list of his trees he had
collected and intended to publish.
I wrote some time ago to Mr.
Wendell the Public printer
about the cost of extra copies

of such things as I wanted and
also about the plates but have
not yet received an answer to my
last letter. — You will probably
soon hear from the printer with
regard your report. — Where is
Dr. Perry Van Schott?

I am most Respectfully
your friend John H. Dyer

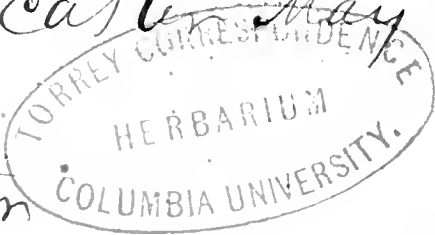
P.S. Since you have left Crosby St.
I do not know to direct my letters
to you!

How can you say that No 5 is closely
resembling No 4? The cones have the
same general form. — I will look
Engelm. sp. (in Wright. bot.) I will look
for it in Hartweg's Calif. Plants, and proceed
best I can.



Recd. 2nd. May 9.

Can. 2nd. May 9.
Lancaster May 4th 1857



My Dear Doctor

Your kind letter of April 27th is just received. — You have several times inquired of me about my special report on the Forest Trees of our route Botanical Geography & C. & C.; and I as often forget to mention that I have made none except the one you had the kindness to correct for me which was printed last fall or at least proof sheets were sent to me for correction at that time.

I have not seen nor heard any thing of them since then. By writing to Leitch Ives, or the Public printer you might get a proof copy soon.

Dr. Engelmann wrote me on the eve of his departure for Europe that he had ordered the printer to send

the proofs of the memoirs on
Cactaceae to Dr. Gray for correction. —

Whether it is printed or not I do not
know neither do I know who had
the supervision of the corrections of
the engravings. Some one competent
I should suppose ought to see to it,
or terrible blunders may be the
consequence.

Mr. Sullivan I fear has got into a
muss — or may get me into it — with
the government officers with regard
to my Mosses. He has them prepared
with 10 engravings nearly ready for
publication but I fear the government
printers will hardly agree to his

terms, which is to have the engra-
vings made and printed under his
own eye — If not taken by the
government they will be published
in the Transactions of the Boston
Academy of Sciences, so that if I
can keep out of the scrape "I don't

Care which Bear Whips"

I am engaged in partnership with an old brother physician of our Town but on account of his declining health and strength I have a good deal of the physical labor to perform myself which makes me very busy.

Please let me know what is going on.

Best respects to your kind family

Most Respectfully Yours

Edwin H. Rejlander

P.S. Where is Mr. Schott & Dr. Pavy?

I think you promised to let me see some of the proofs of the engravings of our plants!

If you correspond with Dr. Gray please inquire about the memoir on Cacti!



Am^d. July 28/

Vancouver July 24, 1857

Dear Doctor

I have just seen the 2nd Vol. U.S.P.R.R. Expl. & Surveys and I hasten to correct an error in locality and geography, you and Dr. Gray have fallen into, so that it can be corrected in your Boundary Report.

In the Botanical report of Capt. Popen collections, you refer to the remarkable and interesting Rutaceous plant, we collected at the Flounce, (not Florence) mountain, which you have named *Astrophyllum dumosum*. Flounce mountain is not in New Mexico, but on the ^{the} Western or Mexican side of the Rio Grande, about 50 or 60 miles below El Paso. - The Organ mountains are about the same distance above El Paso, on the American side of the Rio Grande. -

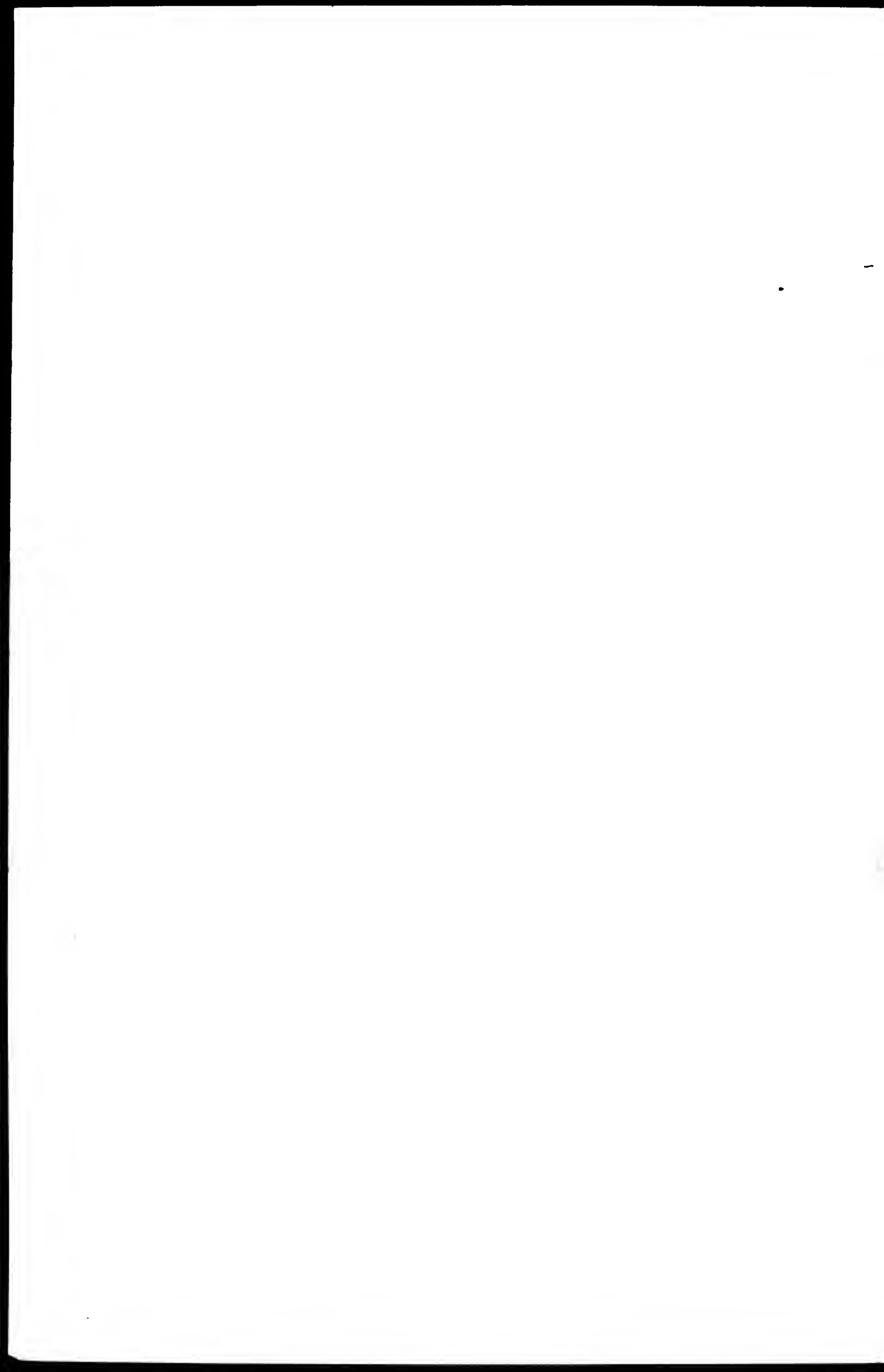
Another mistake, not of so much

consequence however, is, that Mr. Schott did not "obtain it farther down the River" The specimens he had, and from which he made his figures and sketches, were from mine collected at the Florence Mt., which I furnished him at Eagle Pass. I have received through the kindness of Mr. Schott, the Cactaceae of the Mexn. Boundary. - Is the general Botany printed? The Rail Road Reports are slow in making their appearance. Please write soon.

With sentiments of the highest regard I am most respectfully
yours. John M. Rydman



ENCE



Recd Aug. 31st 1857

LANCASTER, Pa. Aug. 15th 1857

My dear Friend.

Your letter of 8th Aug. was with pleasure received two days ago. - Some 10 or 12 days ago I addressed a note to Mr. Seaman Superintendent of Pub. printing to know something about the plates of Ceph. Whipples botany. Horns as well as the Cactaceae I was in hopes of receiving an answer before I replied to you. I have 200 copies of ^{such as I sent you letter press of} Whipples botany of which I can furnish as many as you & Dr. Gray may want. - Your welcome letter of July 28th was also duly received. As soon as I hear from Mr. Seaman I will let you know the result. Mr. Sullivant will publish the mosses of our expedition in the transactions of the Acad. of Arts & Sciences Boston. - If I can get them soon enough I will have a few bound up with the volume on the

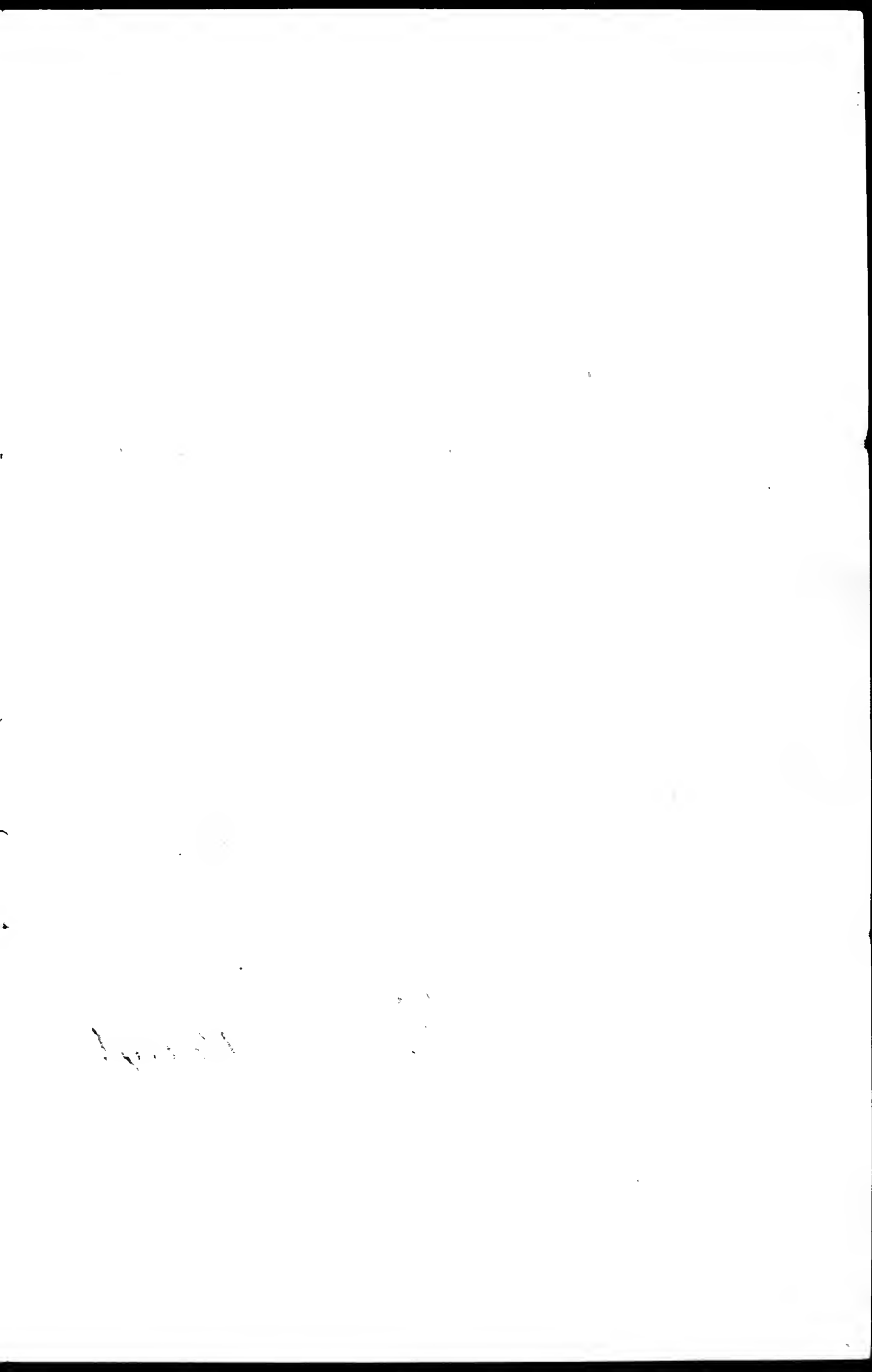
will be published of the same form
& size. —

I have made about 3 or 4 pages of
"Additional notes & corrections" which I
intend to have printed here to add to
our botany. — I will in a few days
send it to you for suggestions ^{in so kind} and
emendations if you will — I can
have the table printed at the same ^{time}
As I have had no experience in such
business will you be kind enough
to furnish me soon with a suitable
name?

With sentiments of high regard I am
most Respectfully yours

John H. Bigelow

so, tell me next time you write,
what has become of Dr. Parry? —



$$\begin{array}{r} 34 \\ 8145 \\ \hline 24:3712 \end{array}$$

Recd. Aug. 31.

San Carter O. Aug 19. 1857

My Dear Friend

Enclosed are my additional notes & corrections. Will you suggest any thing they need? And please write a title page for the same? I have just received a note from Mr. A. G. Seaman who refers me to Mr. James Ackerman of N.Y. who prints them at a cost for the Govt. of $\$1\frac{20}{100}$ per 100 copies of each plate and to Sarony Major & Knapp who printed 2 or 3 plates of trees in colors at $\$3\frac{20}{100}$ per 100 copies of each plate. - He thinks I should get them from the printers at the same rate.

Most truly & Respectfully Yours &c.
J. M. Bigelow

38

Recd March 17/

Lancaster Mar. 12th 1858

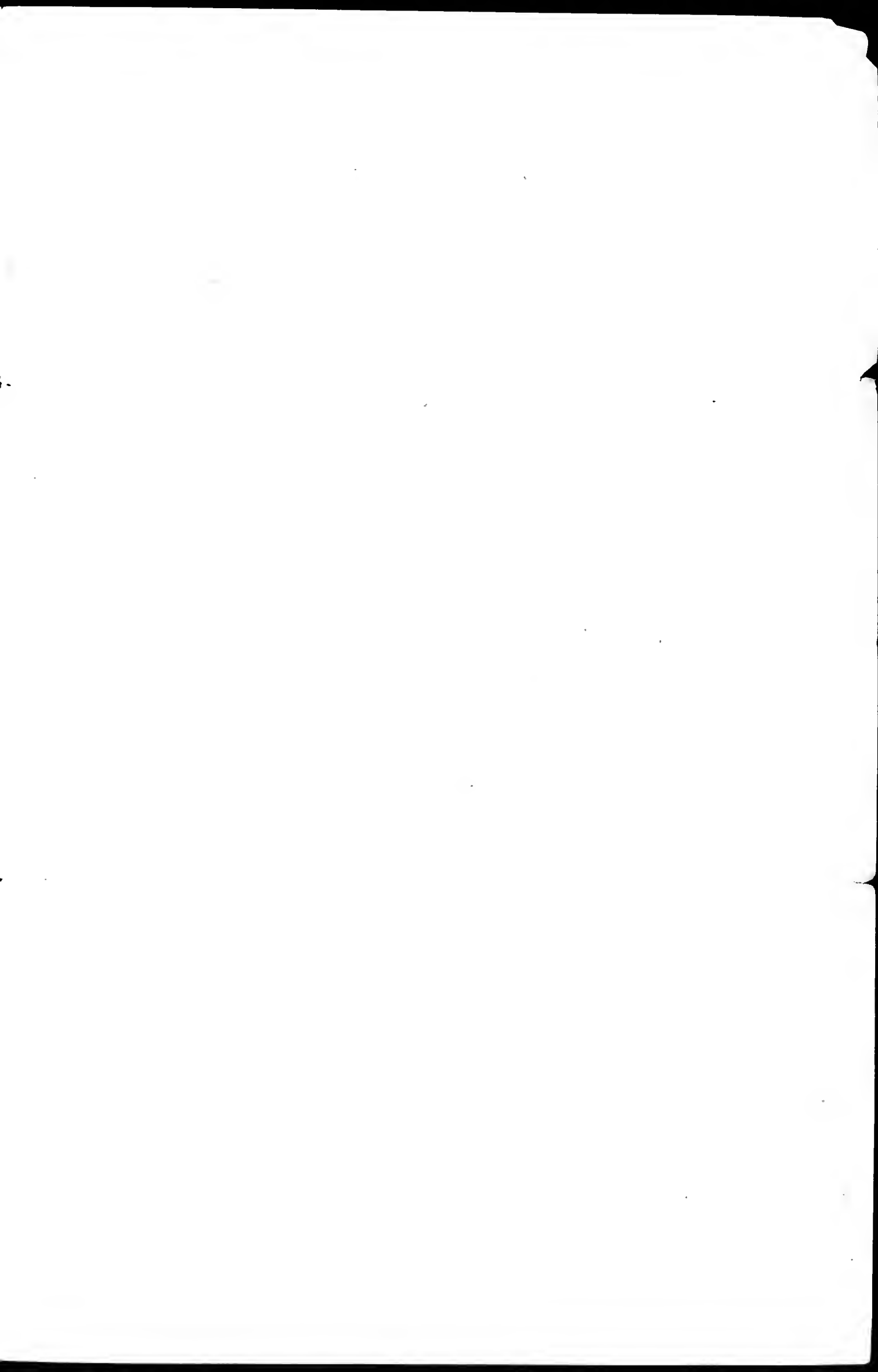
My Dear Friend

I sent yesterday by express to Dr Gray ⁹⁵~~100~~ copies of Cactaceae & 5 copies of Whipples Botany for Dr. Engelman.

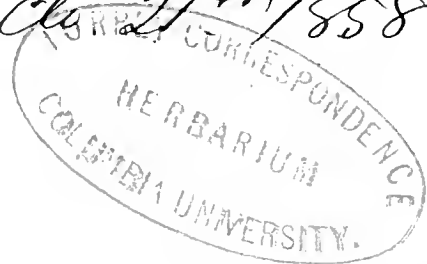
I also sent 5 copies of the botany for you which you will receive from him the earliest convenient opportunity — I claim no equivalents for them but if you insist on it I would rather have it in Boundary Botany. — Please let me hear when you commence the printing of the Boundary. — Is the Geology of the Boundary printed?

Most Respectfully Yours in
Waste

J. M. Bigelow
P.S. I will send on the money for the plates very soon — money with us is tight. Tell Mr. Ackerman to have a little patience. —



San caster Oct 21st / 858



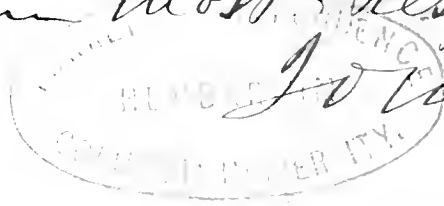
My Dear Friend.

It is now a long time since I have heard from you or Dr. Gray. — I have seen the 1st vol. of May Emory's Report of the Boundary Commission. — The whole work is only a partial Report of the Survey embracing details of little excepting the commencement and ending of the Survey. — The Mimbres, Gobre, Upper Gila, and indeed all those regions between the Rio Grande near the 32nd parallel & the upper Gila excepting what may be embraced in the Natural History Collections are quite meagre. Even the Geology which in the other portions of the Survey is full and satisfactory is here nearly as blank as the wilderness itself. — When will the Botany be published?

A true however to Complaining
for I did not commence my letter
for that purpose but to bother you
in another way!

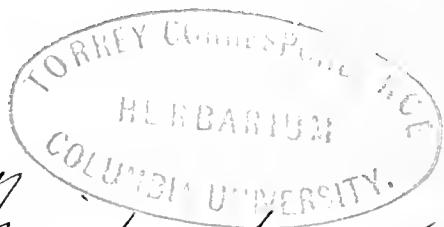
You are an expert in Chemistry as
well as botany, so I want to know
how the Bi-Sulphate of Lime can
be economically and plentifully
made or procured. For the ~~trou~~
trouble & expense you may incur
in communicating this desirable
information I will endeavor to satisfy
you in any manner you may
indicate. — As the Sorghum
season is upon us please answer
as soon as your earliest convenience
will permit —

Kindest regards to your dear family
With sentiments of the highest regard
I am most Respectfully yours
J. C. M. Piquon



P.S. I received today a letter from
friend Schott the first since his
return from Panama. - He
informs me also that Dr. Engelmann
has returned from Europe.





Detroit Mich. Aug 13th 1860

My Dear Doctor

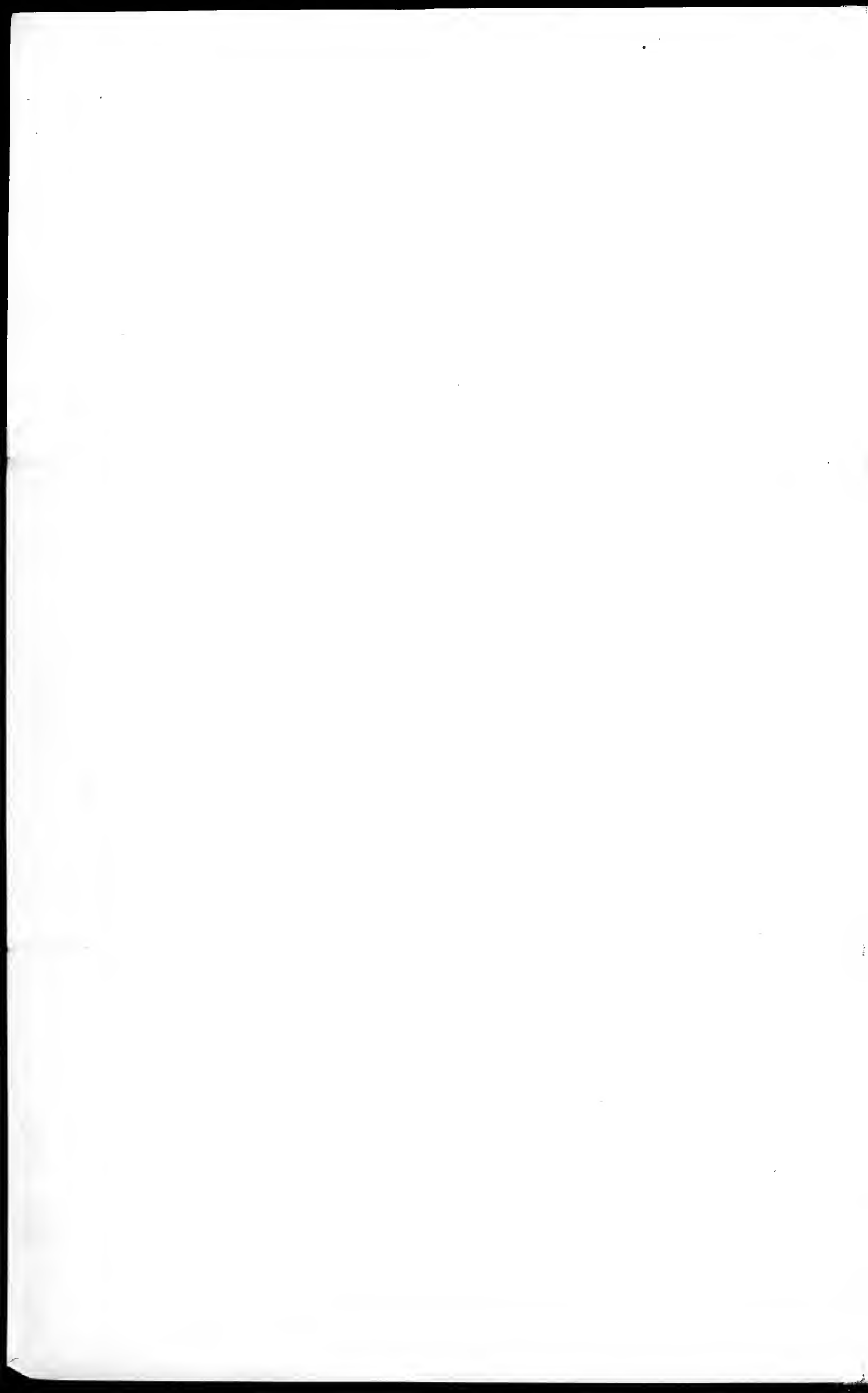
Your letter of the 23rd ult. was forwarded me by ^{my} family only a day or two ago. — do you know the address of Mr. Lebey? The Mother Superior of the Sisters of a Religious order in Cincinnati through Dr. Blackman who was on a professional visit to our place at that time sent me ~~the~~ Mr. Lebey's list of desiderata. — I put them up here some specimens of the California Sequoia's and for the other plants referred them to you. — The Mother Superior was going to Europe at or near that time and wanted to take them with her. They of course could not get them because you had not time to put them up. — If you do not know the address of Mr. Lebey, I will procure it from Dr. Blackman's mutual friends at Cincinnati so that a correspondence between you can be established. — He probably does not know that you have the disposition of many of the plants which he appears anxious to obtain.

I hope after a time I will be able to get that set of

plants to which I have a sort of quasi claim
title. - No I could not get the Botany of the
Mex. Bond. except a handsome vol. of the Cactaceae
kindly furnished me by Dr. Engelmann. - I have
made application to half a dozen sources for a
copy of the general Botany which I very much need
but with no success. - I suppose my political
skin is not quite dark enough to secure such
a favor. - Mr. Horton our Rep. sent 3 copies to our
County - one to a Drunken Dentist the other
two to two doctors all of whom know as much about
Botany as a horse probably - for a horse knows when
he meets good grass especially if he's hungry
which is problematical about the doctors. - I
am told they are on Sale at the Washington
book stores & I may one of these days get one
in this way. The Zoology makes very pretty
pictures but if I can not get the Botany in any other
way I must secure one through you when you succeed
in getting your extras through the mail. Yours with
Engelmann and the Grasses at the Smithsonian
will make it complete will it not? Bye the Bye
how do those grasses grow which you
promised us through the Smithsonian. -
The Lallyrands of our government are a

good deal like the old French diplomat
Their greatest care is for themselves even
when they seem to foster science. — You say
you would like to have me go out on another exploring ex-
pedition. With a proper head, properly equipped and nothing
else to do I would like it myself very much. — But I have
abandoned my practice for a while any how. — I am
here in Detroit assisting Capt. Meade in the Meteorological
department of the N. & W. Lake Survey. — So far as com-
-fort is concerned I am better off here than in the practice
or in the field. I have only been here a few weeks. — Is
Chapman's Southern Flora to be had in our City? I of
course have not seen it. — You speak of Perry
Wright's Thuerber & C. but where is our old friend
Schott. Or the Publication of his last Expedition?

Since I received your letter I inquired of Dr.
Pitcher about Thuerber whose station I understand
is at Ann Arbor but the Dr. thinks he is not there
now and does not know his whereabouts. — If Harvey
had been up Bill Williams Fork at the proper season
he could not have failed in securing a great many
Novelties. — But there is an objection to a Geologist's
making collections in Botany — he has too many irons
in the fire. And if anything suffers for want of time Geology
must wait. — Respects to your family Respectfully yours. J. M. Bigelow



Detroit Dec. 27th 1865.

My dear Doctor:

I received a letter several days ago from Dr. Gray saying that you had returned from California much recruited in vigor although he had not yet seen you. Today I got one from Dr. Engelmann in which he says you will visit Dr. G. Christmas or two years. I heartily wish both of you all the pleasant enjoyments of this happy season and a long lease for the renewal of them in all reasonable time to come. You doubtless enjoyed yourself very much in your visit to the golden land of flowers although the season was not the most propitious for the exhibition of its deciduous or spring & early summer plants - The extreme dry weather of summer & fall I am told scorches almost every green thing especially on the plains. The mountain districts I suppose are different. On account of the great difference in the season I presume you saw very few of the plants I brought home 12 years ago and what you collected must have been very different from mine. Did you bring many rarities? I hope you did not fail to visit Goosely's "Cedar of Lebanon". I hope also we will get through Silliman an interesting account of your explorations in Botany as well as Mineralogy. -

Early this summer Dr. Engelmann requested me to look after the *Nymphaea alba* said by Nuttall to grow near Detroit together with *Isoetes Callictriche* & C. & C. In fulfilling my commission as well as my limited means would allow I find that the *Nymphaea* in our vicinity is odoriferous and bears all the published characters of *N. odorata* with the addition of tubers on the Rhizome making it without doubt the *N. tuberosa* of Payne. Mr. P. writes me that the *N. odorata* of the East is entirely destitute of them and that there are specific differences in the airbladders of the seed & C.

With the Lobelia's & Callitriche's I came out minus
not being sharp enough to discover them though my
range was limited - being confined to the suburbs of the city
in looking for them. But to compensate in some
measure for these disappointments I have discovered
a Nuphar which I think is quite distinct from
N. advena. Like the Nymphaea tuberosa the greatest
specific difference appears to be in the rhizome
nearly all my badly preserved specimens are sent to
Dr. Gray & Engelman. If you would like to see
it I can send by mail a fragment of the rhizome
of N. variegata to compare with yours. of the east

This is the name Dr. Engelman proposes to give
our plant but I fear the variegation or tinting of
the sepals will not constitute the specific ^{characters} ~~difference~~
of the ^{above} two plants. Dr. Mr. Payne writes me that he ^{thinks} he
seen our plant in New York and that the N. advena has
sometimes sepals stained with red. - Dr. Engelman says
we must study them more thoroughly next summer if we
live. — —

I would like to know Dr. Gale's address. Can
you give it me? I would like to ^{know} also if my name
sake the present Minister at Paris is a nephew
of the late Hon. Silas Wright Jr.?

With sentiments of high regard I am
most Respectfully yours
John M. Bigelow

